



Columbia		÷	CHAIN OF CUSTODY									SR#:												
Services**	317 South 13th	Ave. • Kels	so, WA 98	3626 •	(360) 577-7	222 •	(800) 6	95-722	2x07 •	FAX ((360) 6	36-10	68	Р	AGE	:		OF			_co	C #_		
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REPORT REQUIREMENTS I. Routine Report: Method Blank, Surrogate, as required	P.O. # Bill To:		MATION	_	Circle which metals are to be analyzed: Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V								Sn V Z	In Hg										
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DHL: Prepare a shipment: Print waybill

DO NOT PHOTOCOPY could delay the delivery of your package and will result in additional shipping charge For Tracking, please go to <u>www.dhLusa.com</u> or call 1-800-225-5345 Thank you for shipping with DHL Using a photocopy

Print waybill

View pending shipments

Create new shipment 🔼

https://webship.dhl-usa.com/shipmentdocuments/labeldoc.asp

Larry R. Gentile

From:

Larry R. Gentile [Irgentile@longfibre.com]

Sent:

Tuesday, April 15, 2008 12:14 PM

To:

'arnaud.girard@metrokc.gov'

. . .

Subject:

1st QTR Wastewater reporting

Attachments: 1st qtr 2008 wastewater.pdf

Look at me, I'm on time!!! :-) Regards,



Industrial Waste Quarterly Self-Monitoring Report

Mall or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200

Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

Company Name: Longview Fibre Paper and Packaging Inc.

This form is available at http://dnr.metrokc.gov/wir/indwaste

Please specify year: 2008

QUARTER

Sample Site No.: A4500

Permit/DA No.: <u>631-02</u>

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

			▼							
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (CU)			Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.
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_▶	Maximu	ım daily fl	ow from this	quarter: <u>347</u>	0 gallons	s. Date on v	vhich max	kimum daily flo	w occurred:	2/26/08

Due Date: First Quarter Report is due by April 15 of each year.



Please specify year: 2008

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Sulle 200

Seattle, WA 98109-1658

Company Name: Longview Fibre Paper and Packaging Inc.

Phone 206-263-3000 / FAX 206-263-3001 This form is available at http://dnr.metrokc.gov/wir/indwaste

QUARTER 1

Sample Site No.: A4500 Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

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Konlin	Sample Dale	Sample 1yte C (Composite) C (Greb) BC (Batch)	Copper (CU)			Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the my modely and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I buther certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.
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	Maxim	um daily f	low from this	quarter: 347	70 gallon	s. Date on v	which ma:	ximum daily flo	w occurred:	2/26/08

First Quarter Report is due by April 15 of each year.

	CU	ZN
8-Jan	109	251
	164	94
	136.5	172.5

8-Feb

8-Mar	104	118		1466600	3/27/2008
			12400	1454200	3/13/2008
	114	118	2410	1451790	3/12/2008
	164	166	9390	1442400	3/7/2008
	482	106	2290	1440110	3/3/2008
	855	240	3470	1436640	2/26/2008
	737	146	17590	1419050	1/30/2008
	409.3333	149	9050	1410000	1/25/2008
			-3190	1413190	1/22/2008
			4040	1409150	1/17/2008
			8000	1401150	1/7/2008
			3160	1397990	1/2/2008



April 3, 2008

Analytical Report for Service Request No: K0802185

Larry Gentile Longview Fibre Paper & Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Waste Water

Dear Larry:

Enclosed are the results of the samples submitted to our laboratory on March 13, 2008. For your reference, these analyses have been assigned our service request number K0802185.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

d Wallace Ed Wallace

Project Chemist

EW/lb

Page 1 of 8

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

00003

Columbia Analytical Services, Inc. Kelso, WA State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
ldaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	







- Cover Page -INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Paper & Packaging Inc Seattle Waste Water

Project Name :

Project No.:

NA

Service Request: K0802185

Sample Name:	Lab Code:
Decant #1 3/3	K0802185-001
Decant #1 3/7	K0802185-002
Decant #1 1/2	K0802185-003
Decant #1 1/30	K0802185-004
Method Blank	K0802185-MB

Comments:

00005

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Waste Water

Project No.: Matrix:

NA Water

Service Request: K0802185

Date Collected: 01/02-03/07/08

Date Received: 03/13/08 Date Extracted: 03/18/08

Total Metals Units: ug/L (ppb)

	Analyte: Analysis Method: Method Reporting Limit: Date Analyzed:	Copper 6010B 10 03/19/08	Zinc 6010B 10 03/19/08
Sample Name	Lab Code		
Decant #1 3/3	K0802185-001	104	118
Decant #1 3/7	K0802185-002	2490	241
Decant #1 1/2	K0802185-003	109	251
Decant #1 1/30	K0802185-004	164	94
Method Blank	K0802185-MB	ND	ND

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Columbia Analytical	СН	IAIN OF	CUSTO	ODY		SR#: 4080	2186
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INVOICE	INFORMATION	Circle which metals	s are to be analyzed		· · · · · · · · · · · · · · · · · · ·		
REPORT REQUIREMENTS P.O. #						·	
I. Routine Report: Method Bill To:		Total Metals: A	I As Sb Ba Be	B Ca Cd Co C	Cu/Fe Pb Mg Mn	Mo Ni K Ag Na Se Sr T	I Sn V An Hg
Blank, Surrogate, as		Dissolved Metals: A	l As Sb Ba Be	B Ca Cd Co C	r Cu Fe Pb Mg Mn	Mo Ni K Ag Na Se Sr T	îl Sn V Zn Hg
required		INDICATE STA	TE HYDROCARE	ON PROCEDURE:	AK CA WI NORTI	HWEST OTHER: (C	CIRCLE ONE)
II. Report Dup., MS, MSD as TURNAROU	ND REQUIREMENTS		RUCTIONS/COMN			-	
required24 hr.	48 hr.		_				
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Date/Time

Firm

Signature

Printed Name

Date/Time

RCOC #1 06/03

Firm

Signature

Printed Name

Columbia Analytical Services, Inc. Cooler Receipt and Preservation Form

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Client / Project: long Lbu	Sutt	4			Service	e Requ	est)K08	2/8	5		
D V	Opened:	3/13/	T T	В	_ y:	T8	la				
Samples were received via? U	S Mail	Fed Ex	UPS	ø	THL)	GН	GS PDX	Couri	er H	and Deli	ivered
2. Samples were received in: (circle)	6	oler Bo	x	Envelo	оре	Other	,	,		NA	
3. Were <u>custody seals</u> on coolers?	N.	A 40	N	Ifv	es, how	many a	nd where?/	Jen!			
If present, were custody seals inta	ct?	G G	 N				they signed an	•		$\overline{\mathbb{Q}}$	N
4. Is shipper's air-bill filed? If not, r		bill number:_				<u> </u>			NA	\bigcirc	N
5. Temperature of cooler(s) upon 1 Temperature Blank (°C):	receipt (°C	C):	3.6 4.2								-
6. If applicable, list Chain of Custod	y Number	z:								·	_
7. Were custody papers properly filled	ed out (ink	k, signed, etc.))?						NA	(Y)	N
8. Packing material used. Inserts	Baggies	-Bubble Wi	ap G	Pac	ks Wei	Ice S	Sleeves Other	T			
9. Did all bottles arrive in good cor	ıdition (u	nbroken)?	Indicate	e in the	table be	low.	•		NA	\bigcirc	N
). Were all sample labels complete (i.e analysis, preservation, etc.)?											
11. Did all sample labels and tags agr											
. Were appropriate bottles/containers and volumes received for the tests indicated? NA © N											
8. Were the pH-preserved bottles tested* received at the appropriate pH? Indicate in the table below NA 🚜 N											
											N
15. Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?										Y	N
16. Was C12/Res negative?									(NA)	Y	N
Sample ID on Bottle	Samp	ole ID on COC			Sample	ID on E	Bottle :	Sar	mple ID o	n COC	
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Sample ID	Bottle Count	Bottle Type	Out of Temp		Broken	рН	Reagent	Volume added	Reager		Initials
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*Does not include all pH preserved sample aliqu Additional Notes, Discrepancies, &			ceiving Sc	OP (SMC	D-GEN).						
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April 4, 2008

Analytical Report for Service Request No: K0802634

Larry Gentile Longview Fibre Paper & Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Wastewater

Dear Larry:

Enclosed are the results of the rush sample submitted to our laboratory on March 27, 2008. For your reference, these analyses have been assigned our service request number K0802634.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

dwallace

Ed Wallace

Project Chemist

EW/afs

Page 1 of 15

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon

CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case namative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A ______ tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the clution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
 - The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
 - he chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc. Kelso, WA State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-







Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Seattle Wastewater Project Name:

Project Number: NA

Sample Matrix:

Service Request: K0802634 Date Collected: 03/26/08

Date Received: 03/27/08

pН

MRL

Analysis Method:

SM 4500-H+ B

AQUEOUS LIQUID

Test Notes:

Date/Time

Basis: NA

Units: pH Units

Result Notes

Sample Name

Lab Code

Factor

Dilution Analyzed

Result

Misc Sample

K0802634-006

03/27/08 13:24

10.45

SM

Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

5

Report By: CSKILLERN

LFC002708

- Cover Page -INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Paper & Packaging Inc Seattle Wastewater

Project Name :

Project No.:

NA

Service Request: K0802634

Sample Name :	Lab Code :
Decant #1 3/12	K0802634-001
Decant #1 3/14	K0802634-002
Decant #1 3/18	K0802634-003
Decant #1 3/21	K0802634-004
Decant #1 3/21 0830	K0802634-005
Misc Sample	K0802634-006
Method Blank	K0802634-MB

Comments:

Date:

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name: Project No.:

NA

Seattle Wastewater

Date Collected: 03/12/08

Service Request: K0802634

Date Received: 03/27/08

Matrix:

Water

Date Extracted: 04/01/08

Total Metals

Sample Name:

Decant #1 3/12

Units: ug/L (ppb)
Basis: NA

Lab Code:

K0802634-001

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	1 0	04/03/08	114	
Zinc	6010B	10	04/03/08	118	

Analytical Report

Client:

Matrix:

Longview Fibre Paper & Packaging Inc

Project Name: Project No.:

Seattle Wastewater

NA

Water

Service Request: K0802634

Date Collected: 03/14/08

Date Received: 03/27/08

Date Extracted: 04/01/08

Total Metals

Sample Name:

Decant #1 3/14

Lab Code:

K0802634-002

Units: ug/L (ppb)
Basis: NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	04/03/08	164	
Zinc	6010B	10	04/03/08	166	

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name :

Seattle Wastewater

Service Request: K0802634

Date Collected: 03/18/08 Date Received: 03/27/08

Project No.: Matrix:

NA Water

Date Extracted: 04/01/08

Total Metals

Sample Name :

Decant #1 3/18

Units: ug/L (ppb)

Lab Code:

K0802634-003

Basis: NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper Zinc	- 6010B 6010B	10	04/03/08 04/03/08	482 106	

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Wastewater

Service Request: K0802634 Date Collected: 03/21/08

Project No. :

NA

Date Received: 03/27/08

Matrix :

NA Water

Date Extracted: 04/01/08

Total Metals

Sample Name : Lab Code : Decant #1 3/21 K0802634-004 Units: ug/L (ppb)

Basis: NA

Sample Result Analyte **Analysis Method** MRL Date Analyzed Result Notes Copper 6010B 10 04/03/08 855 Zinc 6010B 10 04/03/08 240

Analytical Report

Client:

Matrix:

Longview Fibre Paper & Packaging Inc

Project Name : Project No. : Seattle Wastewater

NA

Water

Service Request: K0802634

Date Collected: 03/21/08

Date Received: 03/27/08

Date Extracted: 04/01/08

Total Metals

Sample Name:

Decant #1 3/21 0830

Lab Code:

K0802634-005

Units: ug/L (ppb)

Basis: NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper Zinc	6010B 6010B	10 10	04/03/08 04/03/08	737 146	

Analytical Report

Client:

Matrix:

Longview Fibre Paper & Packaging Inc

Project Name: Project No.:

Seattle Wastewater

NΑ

Water

Service Request: K0802634

Date Collected: 03/26/08

Date Received: 03/27/08

Date Extracted: 04/01/08

Total Metals

Sample Name:

Misc Sample

Lab Code:

K0802634-006

Units: ug/L (ppb)
Basis: NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	50	04/03/08	448000	
Zinc	6010B	50	04/03/08	114000	

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Wastewater

Service Request: K0802634 Date Collected: NA

Project No.: Matrix:

NA

Date Received: NA

Water

Date Extracted: 04/01/08

Total Metals

Sample Name:

Method Blank

Units: ug/L (ppb)

Lab Code:

K0802634-MB

Basis: NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	04/03/08	ND	
Zinc	6010B	10	04/03/08	ND	

Columbia Analytical					CH	łΑ	N (OF	C	US	STO)D	Y								SR	#:	Κı	180	2634
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Signature

Printed Name

Date/Time

Firm

Signature

Printed Name

RCOC #1 06/03

Date/Time

Firm

Columbia Analytical Services, Inc. Cooler Receipt and Preservation Form Service Request K08 Client / Project: Opened: Hand Delivered **UPS** DHLGS PDX Samples were received via? US Mail Fed Ex Courier Box NA Envelope Samples were received in: (circle) Other 2. If yes, how many and where? 3. Were custody seals on coolers? N If present, were custody seals intact? N If present, were they signed and dated? N N 3.3 5. Temperature of cooler(s) upon receipt (°C): 26 Temperature Blank (°C): 6. If applicable, list Chain of Custody Numbers: Ô Were custody papers properly filled out (ink, signed, etc.)? NA 7. Wet Ice Sleeves Other Packing material used. Inserts Baggies Bubble Wrap Gel Packs 8. € Did all bottles arrive in good condition (unbroken)? Indicate in the table below. NA Ν 9. Were all sample labels complete (i.e analysis, preservation, etc.)? Ν 10. 6 11. Did all sample labels and tags agree with custody papers? Indicate in the table below N Were appropriate bottles/containers and volumes received for the tests indicated? N 12. Were the pH-preserved bottles tested* received at the appropriate pH? Indicate in the table below N Were VOA vials and 1631 Mercury bottles received without headspace? Indicate in the table below. N Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection? N 16. Was C12/Res negative? N Sample ID on Bottle Sample ID on COC Sample ID on Bottle Sample ID on COC Reagent Lot Bottie Out of riead-Volume Sample ID **Bottle Type** Temp space Broken Number Count initials Reagent added *Does not include all pH preserved sample aliquots received. See sample receiving SOP (SMO-GEN). Additional Notes, Discrepancies, & Resolutions:

Columbia Analytical	CH	IAIN OF CUS	TODY		SR#:	
An Employee - Owned Company 1317 South 13th Ave. • K	elso, WA 98626 •	(360) 577-7222 • (800) 695-722	22x07 • FAX (360) 636-1068	PAGE	OF C	OC #
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DECANT 41 3/2/00 0250	 	Say .	 	X		
DECANT #1 3/21/08 0830	1-1			<u> </u>		
MISC SAMPLE 3/26/08/0835				X X		PH
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INVOICE INFO	RMATION	Circle which metals are to be an	alvzed:		!!!	·· l= ··
REPORT REQUIREMENTS P.O. #			 Ba Be B Ca Cd Co Ci√	Cu Fe Pb Ma Mn ≀	Mo Ni K Ao Na Se	Sr TI Sn V Zn Ho
I. Routine Report: Method Blank, Surrogate, as		Dissolved Metals: Al As Sb		_		
required		*INDICATE STATE HYDRO				(CIRCLE ONE)
II. Report Dup., MS, MSD as TURNAROUND R	EQUIREMENTS			AR OA W HOM	WEST STILL	(dillock diving
	48 hr.					
III. Data Validation Report					Container Su	nnly Number
Standard (10-						
IV. CLP Deliverable Heport Provide FAX I	RUBURS					
Requested R	eport Date				746	5
RELINQUISHED BY:	REC	EIVED BY:	RELINQUISI	HED BY:	RECE	IVED BY:
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Printed Name Firm Pri	nted Name	Firm	Printed Name	Firm	Printed Name	Firm RCOC #1 06/03

Columbia Analytical	CHAIN OF	CUSTODY		SR#:						
Services ** An Employee - Owned Company 1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222X07 • FAX (360) 636-1068 PAGE OF COC #										
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INVOICE INF	FORMATION Circle which metals	ire to be analyzed:	11_1_	_11	1. 1					
REPORT REQUIREMENTS P.O. # I. Routine Report: Method BIII To:	Total Metals: Al	As Sb Ba Be B Ca Cd Co Cr	Fe Pb Mg Mn M	' 1o Ni K Ag Na Se	Sr Ti Sn V Zn Hg					
Blank, Surrogate, as		As Sb Ba Be B Ca Cd Co Cr C			•					
required		HYDROCARBON PROCEDURE: AI	K CA WI NORTH	WEST OTHER:	(CIRCLE ONE)					
required	l l	CTIONS/COMMENTS:								
III. Data Validation Report5 Day	Just New	D REPORT BACK IN "	TIME	Container Sup	unly Number					
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RCOC #1 06/03

DHL: Prepare a shipment: Print waybill

Picces: 1/1 FM: LONGVIEW FIBRE ORIGIH: Gentile
Environmental
S901 E MARGINAL WAY S
SEATTLE, VVA 98134
UNITED STATES Phone: 206-762-7170
To: C OLUMBIA ANALYTICAL SERVICES BFI 98626 **ED WALLACE** 1317 SOUTH 13TH AVENUE KELSO, WA 98626 UNITED STATES TEL: 360-577-7222 Description: WasteWater Samples Weight: 13 lbs for 1 pcs Date: 2008-03-26 DHL standard terms and conditions apply. KLST 4R **WWH** WAYBILL: 26543801852 (Non-Negotiable)

Print waybill

Create new shipment

DHL: Prepare a shipment: Print waybill

EXPRIESS ===	EXP	Pieces:
FM: LONG VIEW FIBRE Gentile Environmental 5901 E MARGINAL WAY S	3	origin: BFI
SEATTLE, WA 98134 UNITED STATES Phone: 2 To: C OLUMBIA ANALYTICAL ED WALLACE 1317 SOUTH 13TH AVEN KELSO, WA 98626 UNITED STATES	L SERVICES	POSTCODE: 98626 TEL: 360-577-7222
Description:	10/2-1-14	O line for 4 pro
DHL		0 lbs for 1 pcs 2008-03-12 y.
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Thank you for shipping with DHL

View pending shipments

Create new shipment

Print waybill 🚺

Larry R. Gentile

From:

Larry R. Gentile [Irgentile@longfibre.com]

Sent:

Wednesday, January 16, 2008 8:20 PM

To:

'arnaud.girard@metrokc.gov'

Subject:

RE: 4rd quarter 2007waste water sampling

Attachments: 4th qtr 2007 wastewater.pdf

See attached. Regards,



Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

Company Name: Longview Fibre Paper and Packaging Inc.

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Please specify year: 2007

... 2007

QUARTER

4

Sample Site No.: A4500

Permit/DA No.: 631-02

All units arc mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

				<u> </u>								
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Cu	Zn		Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	ments were prepared under my direction re that qualified personnel property inquiry of the person or persons who r gathering the information, the accurate, and complete. I am information, including the possibility of that all data requiring a laboratory of Ecology accredited laboratory for each		
		 								repared under my direction of personnel property person or persons winformation, the rate, and complete. Cluding the possibility equiring a laboratory fedited laboratory for the person of the person		
October	10/22/07	G	.221ppm	.184ppm				2651		ere prepare uralified person of the person accurate, a on, includin ata requirin r accredited		
Oct										is were pre at qualified ity of the p ering the it ue, accura nation, includandial data rec		
						Total volume	e discharg	ed for October	20880	all attachments at to assure that used on my inquiry nsible for gather e and belief, true ing false informa her certify that all attment of Ecolo		
										all a los ing ing ing ithoughton		
November						·				document and a ystem designed a ystem designed ubmitted. Base of directly responsifies for submittin blations. I further yton State Departions and Executive or Authoritian Executive or Authoritian Executive or Authoritian		
Nove										I law that this document a ance with a system design information submitted. Eithose persons directly refuse persons directly refuse persons directly refused to the best of my knowln inficant penalties for subnor knowing violations. If by a Washington State Eby a Washington State Esgnature of Frincipal Executive		
					Т	otal volume o	discharged	I for November	18560	of law that this refance with a see information is to the best ignificant pena if for knowing vied by a Washin.		
										of law ordance or those or those or those significa significa ed by a		
mber	12/27/07	G	.050ppm	.158ppm				3930		ler penalty of on in accord avaluate the system, or submitted is there are sign prisonment for analyzed tested.		
December										unde nvísic and e and e tion : tion : tion : tion : tion :		
. [Total volume discharged for December 26020 Total volume and imparts the and imparts to be an analysis we have that on the and imparts the and imparts the analysis we have the analysis which we have the an											
-▶	Maximu	ım daily fl	ow from this	quarter: 39	30 gallon	s. Date on	which ma	ximum daily flo	ow occurred	l: <u>12/27/07</u>		

Due Date: Fourth Quarter Report is due by Jan 15 of each year.



January 9, 2008

Analytical Report for Service Request No: K0712193

Larry Gentile Longview Fibre Paper & Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Stormwater

Dear Larry:

Enclosed are the results of the sample submitted to our laboratory on December 28, 2007. For your reference, these analyses have been assigned our service request number K0712193.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Wallace

Ed Wallace

Project Chemist

EW/lb

Page 1 of

' Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT . Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by companing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

000-3

Columbia Analytical Services, Inc. Kelso, WA State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ_	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-





000-4



Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0712193
Date Collected: 12/27/07

Project Name:

Seattle Stormwater

Project Number: NA Sample Matrix: WATER

Date Received: 12/28/07

Turbidity

Analysis Method:

180.1

Units: NTU

Test Notes:

Basis: NA

Sample Name	Lab Code	MRL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Roof Drain	K0712193-001	0.2	1	12/28/08 13:45	2.6	
Method Blank	K0712193-MB	0.2	1	12/28/08 13:45	ND	

- Cover Page INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Paper & Packaging Inc

Project Name :

Seattle Stormwater

Project No.:

NA

Service Request: K0712193

Sample Name:

Roof Drain Method Blank Lab Code:

K0712193-001 K0712193-MB

Comments:

Approved By: ______ Date: ______ Date: _______

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Stormwater

Project No.: Matrix:

Water

NA

Service Request: K0712193

Date Collected: 12/27/07 Date Received: 12/28/07 Date Extracted: 01/02/08

Total Metals Units: ug/L (ppb)

Analyte:

Zinc

Analysis Method:

6010B

Method Reporting Limit:

10

Date Analyzed:

01/04/08

Sample Name

Lab Code

Roof Drain

K0712193-001

151

Method Blank

K0712193-MB

ND

Comments:

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0712193

Project:

Seattle Stormwater

Date Collected: 12/27/2007

Sample Matrix:

Water

Date Received: 12/28/2007

Oil and Grease

Sample Name:

Roof Drain

Units: mg/L (ppm)

Lab Code:

K0712193-001

Basis: NA

Test Notes:

Analysis Prep Method Method MRL

1664

Dilution Date Factor Extracted Analyzed Result

Date

Result Notes

Analyte

5.0

1/8/2008

Oil and Grease, Total (HEM)

METHOD

1/4/2008

ND

____ Date: _____*O/OSOR* Approved By: IS22/020597p

K0712193phc.kcl - I 1/8/2008

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project:

Sample Matrix:

Seattle Stormwater

Water

Service Request: K0712193

Date Collected: NA Date Received: NA

Oil and Grease

Sample Name:

Method Blank

Lab Code:

K080104-WB

Units: mg/L (ppm)

Test Notes:

Basis: NA

Analyte

Prep Analysis Method Method MRL

1664

Dilution

Date Factor Extracted Analyzed Result

Date

Result Notes

Oil and Grease, Total (HEM)

METHOD

5.0

1/4/2008

1/8/2008

ND

Date: 👱 Approved By: 1S22/020597p

K0712193phc.kcl - MB 1/8/2008

Page No.;

Columbia Analytical Services ^{NC} .	CHAIN OF CUSTODY	SR#: 107/193 PAGE OF COC#
An Employee - Owned Company 1317 South 13th Ave • Kelso, WA	98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068	PAGE OF COC #
PROJECT NUMBER	8351 A 2	
COMPANY/LUDGES TO COMPANY/LUDGES FIRSTE PAPER & VALLA		
5701 GAST MARGINAL WAY SO.	, 	1. Total or Dissolved 1. Tot
E-MAIL ADDRESS racintile () and fibre. com		
SAMPLERS HOTAT PRE	NUMBER OF CONTA Seminoralis CON	
SAMPLE I.D. DATE TIME LAB I.D. MATRIX		8 3 15 < 15 ° 1 ° 1
ROCE JOAN # 1 12/27/6 U945		TEST FOR
PORT DAW # 2 70/6/ 0945	 	721:4
Kus Dain \$ 5 -12/61 05/15		THE
REPORT REQUIREMENTS INVOICE INFORMATIO	N Circle which metals are to be analyzed:	
I. Routine Report: Method BIII To:	Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe	e Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg
Blank, Surrogate, as required		e Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg
II. Report Dup., MS, MSD as TURNAROUND REQUIREM		A WI NORTHWEST OTHER:(CIRCLE ONE)
required24 hr48 hr.	SPECIAL INSTRUCTIONS/COMMENTS:	
III. Data Validation Report (includes all raw data)		·
Standard (10-15 working	days)	
V. CDD Provide FAX Results		
Requested Report Days		
RELINQUISHED BY: 1530	RELINQUISHED BY	Y: RECEIVED BY:
Signature Date/Tymer Of Signature	Dale/Time/ Signature Date/Ti	
Printed Name Firm Printed Name	Firm Printed Name Firm	Printed Name Firm RCOC #1 06/03

Columbia Analytical Services, Inc. Cooler Receipt and Preservation Form

PC	(31)

Client / Project: LVF	Bres	,			_Service	Reque	est <i>K07</i>	12/9	13		
Received: 12/28/07	Opened:	12/28	10	В	h	_					
Samples were received via? Samples were received in: (circle	14 13 20 14 1	Fed Ex	UPS	Envelo		GH Other	GS PDX	Cour	ier Hai	nd Deli NA	ivered
3. Were <u>custody seals</u> on coolers?	The same of the sa		K+		•	•	nd where?	1F			
If present, were custody seals into	act?		N	•		•	they signed an	d dated?		Ø),	N
4. Is shipper's air-bill filed? If not,	record air-	bill number:_			-				NA	<i>(2)</i>	N
5. Temperature of cooler(s) upon	receipt (°C		?_/_			<u>-</u>					
Temperature Blank (°C):		2	,8								-
6. If applicable, list Chain of Custoo	dy Number	s:									_
7. Were custody papers properly fil	led out (ink	c, signed, etc.))?						NA	\bigcirc	N
8. Packing material used. Insert	s Bubl	ble Wrap	Gel Pa	cks	Wet Ice	Sl	eeves Oth	er			
9. Did all bottles arrive in good co	ndition (u	nbroken)? A	Indicate	e in the	table bel	OW.			NA	Ø	N
10. Were all sample labels complete	(i.e analys	is, preservatio	n, etc.)	?						&	N
11. Did all sample labels and tags ag	ree with cu	istody papers	? Indic	ate in t	he table l	below				€	N
12. Were the correct types of bottl	es used for	the tests ind	icated'	?					NA	Ø	N
13. Were all of the preserved bottles	received at	t the lab with	the app	ropriat	epH? In	dicate	in the table be	low	NA	O	N
14. Were VOA vials and 1631 Merc	ury bottles	checked for a	bsence	of air l	oubbles?	Indica	te in the table	below.	MA	Y	N
Are CWA Microbiology sampl	es received	d with >1/2 th	ie 24hr	, hold	time rem	aining	from collection	on?	MA)	Y	N
16. Was C12/Res negative?									MA	Y	N
].	-						÷111
Sample ID on Bottle	Samp	ole ID on COC		-	Sample	ID on E	Bottle	Sa	mple ID on	coc	
	· · · · · · · · · · · · · · · · · · ·			!			<u> </u>	 			
								 			
				 							
				"							
Sample ID	Bottle Count	Bottle Type		Head-	Broken	рН	Reagent	Volume added	Reagent Numbe		Initials
Sample is	1 000			Бриос	D/Ollon			1 2000	11411112		
·											
]					
											· ·
]									
litional Notes, Discrepancies, c	& Resoluti	ions:									
									C	001	1
·										<u> </u>	

Larry R. Gentile

From:

Larry R. Gentile [Irgentile@longfibre.com]

Sent:

Saturday, October 20, 2007 8:56 AM

To:

arnaud.girard@metrokc.gov

. . .

Subject:

Emailing: 3rd qtr 2006 wastewater.pdf

Attachments: 3rd qtr 2006 wastewater.pdf

More FYI

I should have held off on the last e-mail. The very next one was in error also. Note that our reported value for Cu of 7.42ppm was, per the analysis, in fact .742ppm.

Getting better all the time! See attached pdf.

regards,

<<...>>

Larry R. Gentile

From: Larry R. Gentile [Irgentile@longfibre.com]

Sent: Wednesday, November 07, 2007 10:50 AM

To: 'arnaud.girard@metrokc.gov'

Subject: 3rd quarter waste water sampling

Just received an e-mail from CAS indicating that the 3rd quarter grab (taken 9-27-07) will be analysed and the results back to me on Nov. 16. I'm not sure what delays they have other than it may be that time of year. Oddly enough however, i did receive results for a grab taken in October tagged for 4th quarter reporting (taken 10-22). Would you like to see that one first?

Thank you in advance for your patience with me and look forward to your response.

Regards,



Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Paper and Packaging Inc.

Please specify year: 2007

QUARTER

Sample Site No.: A4500

Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

			▼		▼					
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Cu	Zn		Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (mVL)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	prepared under my direction led personnel properly e person or persons who e information, the urale, and complete. I am including the possibility of requiring a laboratory for each credited laboratory for each
										were prepared under my directualised personnel property of the person or persons who not the information, the accurale, and complete. I an inon, including the possibility of data requiring a laboratory for early accredited
July										aw that this document and all attachments were prepared under my dince with a system designed to assure that qualified personnel property information submitted. Based on my inquiry of the person or persons we note persons directly responsible for gathering the information, the hose of my knowledge and belief, frue, accurate, and complete, filcant penalties for submitting false information, including the possibility knowing violations. I further certify that all data requiring a laboratory y a Washington State Department of Ecology accredited laboratory for the penalties of the
				<u> </u>		Total vo	l Dlume disc	harged for July	18543	achments value that can my inquiry for gatheric for gatheric frue se informating that all ity that all it of Ecolog
			 							locument and all attachmer stem designed to assure it brintled. Based on my ind directly responsible for gat my knowledge and belief, es for submitting false infortations. I further certify that ion State Department of Ec
. August										tocument a state of the state o
		·		<u> </u>		Total volur	ne dischar	ged for August	20309	filaw that this doc dance with a syste information subn those persons dir- to the best of m philicant penalties for knowing violati by a Washington Signature of Principal
. er	9/27/07	G	. 143					983		alty of law accordance the info m, or thos tred is, to are signific nent for kr nent for kr llyzed by a
September										I certify under penalty of law that this document and all attachments were prepared under my dire or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons when manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I aware that there are significant penalties for submitting false information, including the possibility fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for expanded rested. Signature of Principal Executive or Authorized Agent
				J				for September	16777	
_▶	Maximu	um daily fl	ow from this	quarter: 321	5 gallon	s. Date on v	which ma	ximum daily flo	w occurred:	<u>819107</u>

- Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Paper & Packaging Inc

Seattle Water Treatment Plant

Project Name : Project No. :

NA

Service Request: K0709843

Sample Name:

Decant #1 Method Blank Lab Code:

K0709843-001 K0709843-MB

Comments:

Approved By:

Date

0008

Columbia Analytical Services, Inc. Cooler Receipt and Preservation Form

PC Cox	
--------	--

Olient / Project: University	phre				Servi	ce Reg	gyest KO	7	0984.	3		
Received: 10/22/2	Opened	10pm	lix	1	Ву:	TX	Kine					
1. Samples were received via?	US Mail	Fed Ex	<i>LiP</i>	·s 2	DHI)) GH	GS	PDX	Cou	rier H	and De	elivered
2. Samples were received in: (circ	:le) @	ooler B	ox	Enve	lope	Oth	er			·	NA	
3. Were <u>custody seals</u> on coolers?	Ŋ	IA 🐑	N	If	yes, hov	тапу	and whe	ге?		frant		
If present, were custody seals in	itact?	0	N		If prese	nt, wer	e they sig	gned and	dated?	e e	(7)	N
4. Is snipper's air-bill filed? If no	ι, record air	-bill number:								NA NA	0	N
5. Temperature of cooler(s) upon	n recein: (°	C):	Le.	<u>.</u>								
Temperature Blank (°C):	. race.pt (:	5.6									
5. If applicable, list Chain of Custo	ody Numbe	rs:										
7. Were custody papers properly fi	lled out (in	k, signed, etc	.)?							NA	8	N
3. Packing material used. Inser	ts Bub	ble Hrap	Set P	acks	Wet Ic	e .	Sleeves	Other				
). Did all bottles arrive in good c	•				e labie bi	elow.				NA	3	N
io. Were all sample labels complete	•	•									Ø	N
11. Did all sample labels and tags a12. Were the correct types of bott					the table	below				N.A	Ø 8	N N
i3. Were all of the preserved bottles					te 5H? <i>i</i> .	ndicate	e in the ta	ble belor	N	NA NA		
14. Were VOA vials and 1631 Merc				-	-					(NA)	Y	N
15. Are CWA Microbiology samp	les received	d with >1/2 t	he 24h	r. hold	time res	nainin	g from c	ollection	?		Y	N
.6. Was C12/Res negative?				•						(NA)	Y	N
Sample ID on Bottle	5	ole ID on COC			Sample	· (D. op.	25415		500	mble ID on	COC	
. Samble to on Bottle	38111	ile ID dil COC		1	Sample	10 011	DOM!e		581	mole ib on	<u> </u>	
·					 ,							
Sample ID	Bottle Count	Bottle Type		Head-			Dana		olume	Reagent Numbe		initials
t dans Harri Sample IV	Count	Borne làne	Temb	Space	Broken	, ph	Reag	ent	added	Numbe	<u> </u>	Ifficials
			<u> </u>]			<u> </u>					
								<u> </u>	<u> </u>			
				<u> </u>	<u> </u>					 :		
	†											
ddisional Norm Diagramanias I	Pasalest!		·	<u>.</u>	<u></u>		-					
dditional Notes, Discrepancies, &		ons:	··		 – – , . .					0045		
		<u> </u>								- UU13	5	
									<u>P</u>	age 1 of:	I	2



November 23, 2007

Analytical Report for Service Request No: K0709843

Larry Gentile Longview Fibre Paper & Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Water Treatment Plant

Dear Larry:

Enclosed are the results of the samples submitted to our laboratory on October 22, 2007. For your reference, these analyses have been assigned our service request number K0709843.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Edwallace Ed Wallace

Project Chemist

EW/lb

Page 1 of

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit

MPN Most Probable Number

MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GCMS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y
 The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

0003

Columbia Analytical Services, Inc. Kelso, WA State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-







0004

Analytical Report

Client:

Project Name:

Project No.: Matrix:

NA Water

Longview Fibre Paper & Packaging Inc Seattle Water Treatment Plant

Service Request: K0709843
Date Collected: 09/27/07 Date Received: 10/22/07 Date Extracted: 11/01/07

Total Metals Units: ug/L (ppb)

Analyte:

Copper

Analysis Method:

6010B

Method Reporting Limit:

10

Date Analyzed:

11/02/07

Lab Code

Decant #1 Method Blank

Sample Name

K0709843-001 K0709843-MB

143 ND

Comments:

Columbia Analytical Services**					CH	łΑI	N (OF	С	US	TC	'ם מ	Y			_		_							9843	3
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Larry R. Gentile

Girard, Arnaud [Arnaud.Girard@kingcounty.gov] From:

Sent: Wednesday, November 14, 2007 1:50 PM

To: Larry R. Gentile

Subject: RE: Wastewater Reporting

I have received your e-mail and your report - you will need to sign the report, update the report with metals data and provide the discharge volume on day metals sample was collected

Arnaud

From: Larry R. Gentile [mailto:lrgentile@longfibre.com] Sent: Wednesday, November 14, 2007 10:38 AM

To: Girard, Arnaud

Subject: FW: Wastewater Reporting

Just a note to confirm receipt of this e-mail, as I know I am now on a tight timeline. Please confirm and advise additional needs other than already discussed.

Regards,

From: Larry R. Gentile [mailto:lrgentile@longfibre.com]

Sent: Wednesday, November 14, 2007 7:18 AM

To: 'Girard, Arnaud'

Subject: Wastewater Reporting

Attached is what i have minus the sample results and a signature.

If you need a signature now, please advise. I'll get it and resend. Also advise any other needs in this regard. Thanks again for your patience and unless otherwise noted, i will send a final backdated signed copy when the

results are here.

Larry R. Gentile

From:

Larry R. Gentile [Irgentile@longfibre.com]

Sent:

Wednesday, November 14, 2007 1:48 PM

To:

'Girard, Arnaud'; 'arnaud.girard@metrokc.gov'

Subject:

Wastewater reporting

Attachments: 3rd qtr 2007 wastewater rev a.pdf

Still hadn't heard from you and was getting nervous so i had our manager sign what i had. He is fully up to speed with the delay by CAS on the sample results. As far as i know we are still on for getting the sample results this week and will forward as soon as i get them.

Regards,



Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200

Seattle, WA 98109-1658 Phone 206-263-3000 / FAX 206-263-3001

Company Name: Longview Fibre Paper and Packaging Inc.

This form is available at http://dnr.metrokc.gov/wir/indwaste

Please specify year: 2007

QUARTER

2

Sample Site No.: A4500

Permit/DA No.: <u>631-02</u>

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batcn)	Copper (Cu)			Non-Polar fats, oils & grease (FOG) (Record	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	y direction berly ns who ns who the lam billity of tory for each for y
April		<i>x</i> 0 0 a				average only)				s document and all attachments were prepared under my direction system designed to assure that qualified personnel properly submitted. Based on my inquiry of the person or persons who is directly responsible for gathering the information, the of my knowledge and belief, true, accurate, and complete. I amalties for submitting false information, including the possibility of violations. I further certify that all data requiring a laboratory order or State Department of Ecology accredited laboratory for each the control of the control of Ecology accredited laboratory for each the control of Ecology accredited laboratory.
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Dire Drice Second Quarter Report is due by July 15 of each year.

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Wastewater

Project No.: Matrix:

NA Water

Service Request: K0703804

Date Collected: 05/02/07

Date Received: 05/04/07

Date Extracted: 05/12/07

Total Metals Units: ug/L (ppb)

Analyte: EPA Method: Copper 6010B

Method Reporting Limit:

10

Date Analyzed:

05/18/07

Sample Name

Lab Code

#1 Decanting Method Blank K0703804-001 K0703804-MB

37 ND

Comments:

From: "Girard, Arnaud" < Arnaud Girard@METROKC.GOV>

Subject: RE:

Date: Tuesday, July 24, 2007 6:48:17 AM

Larry - Self-monitoring reports can be submitted via:

- US Mail @ King County Industrial Waste 130 Nickerson St., Suite 200, Seattle, WA 98109 OR
- fax 206-263-3001 OR
- · e-mail (.pdf attachment),

... whichever works best for you.

Thanks

Arnaud

Arnaud Girard
Compliance Investigator
Industrial Waste Program
King County Wastewater Treatment Division
Phone: 206-263-3012 Fax: 206-263-3001
http://dnr.metrokc.gov/wlr/indwaste/

From: lrgentile@comcast.net [mailtg:lrgentile@comcast.net]

Sefit: Monday, July 23, 2007 6:51 PM

To: Girard, Armaud

Subject:

Good Afternoon,

I apologize for the delay in submission of the wastewater sampling results. I am still new to this position and have not fully versed myself in all of the procedures and I thank you for your patience in that regard. I can fax the reports to you or I can mail them. Please let me know which you prefer. If you choose mail, please provide a mailing address and I will send them off quickly.

Please respond your earliest convenience.

Regards,

Larry Gentile

9 pages

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Page 1 of 1

From "Girard, Arnaud" < Amaud. Girard@METROKC.GOV>

বাবু<u>র্রুমান্তি</u>comcast.net>

Subject: RE:

Date: Tuesday, July 24, 2007 6:48:17 AM

Larry - Self-monitoring reports can be submitted via:

- US Mail @ King County Industrial Waste 130 Nickerson St., Suite 200, Seattle, WA 98109 OR
- fax 208-263-3001 OR
- · e-mail (.pdf attachment),

... whichever works best for you.

Thanks

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Comcast Webmail - Email Message

Page 1 of 1

"Girard, Arnaud" < Arnaud. Girard@METROKC. GOV>

বापुकारावि@comcast.net>

Subject:

Date: Tuesday, July 24, 2007 6:48:17 AM

Larry - Self-monitoring reports can be submitted via:

- US Mail @ King County Industrial Waste 130 Nickerson St., Suite 200, Seattle, WA 98109 OR
- fax 206-263-3001 OR
- · e-mail (.pdf attachment),

... whichever works best for you.

Thanks

Arnaud

Arnaud Girard Compliance Investigator Industrial Waste Program King County Wastewater Treatment Division Phone: 206-263-3012 Fax: 206-263-3001 http://dnr.metrokc.gov/wlr/indwaste/

From: |rgentile@comcast.net [mailtd:|rgentile@comcast.net]

(Selft: Monday, July 23, 2007 6:51/PM

To: Girard, Amaud

Subject:

Good Afternoon,

I apologize for the delay in submission of the wastewater sampling results. I am still new to this position and have not If in all of the accordance and I thank you for your national in that regard. I can fav the reports to volu



June 6, 2007

Analytical Report for Service Request No: K0703804

Mike Anderson Longview Fibre Paper & Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Wastewater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on May 04, 2007. For your reference, these analyses have been assigned our service request number K0703804.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/lb

Page 1 of

iĝ.

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- . B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y

 The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

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Columbia Analytical Services, Inc. Kelso, WA State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-







- Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Wastewater

Project No.:

NA

Service Request: K0703804

Sample Name:

#1 Decanting Method Blank Lab Code:

K0703804-001 K0703804-MB

Comments:

Columbia Analytical Services NC.
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SR#:	10070 3804

Services NC. An Employee - Owned Company	131	17 South 13	lh Ave. • Ke	iso, WA 9	8626	(360)	577-72	22 • ((800) 6	395-722	2x07	• FAX	(360) €	36-10	68	P	AGE	:		OF			_co	C #_		
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Columbia Analytical Services, Inc. Cooler Receipt and Preservation Form

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Client / Project: Sentile Service Request K07 38 07	1								
Received: 5/4/2 Opened: 5/4/11 By: That									
1. Samples were received via? US Mail Fed Ex UPS DHL GH GS PDX Courier 2. Samples were received in: (circle) Galer Box Envelope Other 3. Were custody seals on coolers? NA N If yes, how many and where?		d Deliv NA	ered						
If present, were custody seals intact? N If present, were they signed and dated?		8	 N						
4. Is shipper's air-bill filed? If not, record air-bill number:	NA ((A)	N						
5. Temperature of cooler(s) upon receipt (°C): Temperature Blank (°C): 3. 9									
6. If applicable, list Chain of Custody Numbers:			-						
7. Were custody papers properly filled out (ink, signed, etc.)?	NA.		N						
8. Packing material used. Inserts Subble Wrap Gel Packs Wet Ice Sleeves Other									
9. Did all bottles arrive in good condition (unbroken)? Indicate in the table below.		Ø	N						
10. Were all bottle labels complete (i.e analysis, preservation, etc.)?		Ø	N						
11. Did all bottle labels and tags agree with custody papers? Indicate in the table below		Ð	N						
12. Were the correct types of bottles used for the tests indicated?									
13. Were all of the preserved bottles received at the lab with the appropriate pH? Indicate in the table below	NA	Ø	N						
14. Were VOA vials and 1631 Mercury bottles checked for absence of air bubbles? <i>Indicate in the table below.</i>	(NA)	Y	N						
15. Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?	(VA)	Y	N						
16. Was C12/Res negative?	(IA)	Y	N						
Sample ID on Bottle Sample ID on COC Sample ID on Bottle Sample	le ID on C	OC L							
This was the same of the same and the same of the same	<u>चित्रकार मुक्त</u>	rings:							
Bottle Out of Head Broken pH Reagent Added	Number	.ot	nitials						
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Additional Notes, Discrepancies, & Resolutions:									
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n	ra 1 of	7							

From: "Girard, Arnaud" < Arnaud. Girard@METROKC. GOV>

To: rgentile@comcast.net

Subject: RE:

Date: Tuesday, July 24, 2007 6:48:17 AM

Larry - Self-monitoring reports can be submitted via:

- US Mail @ King County Industrial Waste 130 Nickerson St., Suite 200, Seattle, WA 98109 OR
- fax 206-263-3001 OR
- e-mail (.pdf attachment),

... whichever works best for you,

Thanks

Amaud

Arnaud Girard
Compliance Investigator
Industrial Waste Program
King County Wastewater Treatment Division
Phone: 206-263-3012 Fax: 206-263-3001
http://dnr.metrokc.gov/wlr/indwaste/

From: Irgentile@comcast.net [mailto:Irgentile@comcast.net]

Sent: Monday, July 23, 2007 6:51 PM

To: Girard, Arnaud

Subject:

Good Afternoon,

I apologize for the delay in submission of the wastewater sampling results. I am still new to this position and have not fully versed myself in all of the procedures and I thank you for your patience in that regard. I can fax the reports to you or I can mail them. Please let me know which you prefer. If you choose mail, please provide a mailing address and I will send them off quickly.

Please respond your earliest convenience.

Regards,

Larry Gentile

Larry R. Gentile

From:

Larry R. Gentile [Irgentile@longfibre.com]

Sent:

Saturday, October 20, 2007 9:13 AM

To:

'arnaud.girard@metrokc.gov'

Subject:

Emailing: 1st qtr 2007 wastewater.pdf

Attachments:

1st qtr 2007 wastewater.pdf



1st qtr 2007

wastewater.pdf (7...
rd time's a charm. But this is the last. Note that the reported composite value of 1.36ppm should have been (after adding up the 4 sample values and averaging).1365ppm.

I am doing my math correctly - i hope! :-) See attached pdf.
As soon as the results for 3rd quarter are back from the lab I will send that too. I see that our permit is up for renewal in 2008. And though the exp. date is still a year away, what I have come to learn quickly is that in this environmental process, it is a blink of an eye! So my question, when do you suggest I begin the renewal process. Reply at your convenience.

Thank you and Regards,



Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200

Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wir/indwaste

Company Name: Longview Fibre Company

Please specify year: 2007

QUARTER

Sample Site No.: A4500

Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

			▼							
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu)			Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowling violations. I further certify that all data requiring a laboratory for each parameter tested. Signature of Phincipal Executive or Authorized Agent
										in accordance with a system designed to assure that qualified personnel properly ludate the information submitted. Based on my inquiry of the person or persons who stem, or those persons directly responsible for gathering the information, the ormitted is, to the best of my knowledge and belief, true, accurate, and complete. I are significant penalties for submitting false information, including the possibility or one or are significant penalties for submitting false information, including the possibility or analyzed by a Washington State Department of Ecology accredited laboratory for each.
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	3/8/07	Composite	1.36 ppm	<i>)</i> 				672		I certify under penalty of law that this document or supervision in accordance with a system dee gather and evaluate the information submitted. manage the system, or those persons directly rinformation submitted is, to the best of my know lawser that there are significant penalties for su aware that there are significant penalties for su amane that there are significant penalties for su analysis were analyzed by a Washington State parameter tested.
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Ma										I certify under penally or supervision in accordather and evaluate the manage the system, conformation submitted aware that there are sine and imprisonmen analysis were analyze parameter tested.
								rged for March	25,730	
_▶	Maximu	ım daily fl	ow from this	quarter: <u>280</u>	6 gallons	. Date on w	hich max	imum daily flo	w occurred:	1/25/07

Due Date: First Quarter Report is due by April 15 of each year.

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Wastewater

Project No.: Matrix:

NA Water Service Request: K0701934

Date Collected: 03/08/07 Date Received: 03/09/07

Date Extracted: 03/19/07

Total Metals Units: ug/L (ppb)

Analyte:

EPA Method:

Copper 6010B

Method Reporting Limit:

10

Date Analyzed:

04/04/07

Sample Name	Lab Code	
#1 Decanting	K0701934-001	141
#2 Decanting	K0701934-002	135
#3 Decanting	K0701934-003	136
#4 Decanting	K0701934-004	134
Method Blank	K0701934-MB	ND



April 6, 2007

Analytical Report for Service Request No: K0701934

Mike Anderson Longview Fibre Paper & Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Wastewater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on March 09, 2007. For your reference, these analyses have been assigned our service request number K0701934.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace Project Chemist

EW/Imb

Page 1 of

NELAP Accredited

ACIL Seal of Excellence Award

🗱 100% Recycled

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case parrative.
- The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- $A \quad \ \ A \ tentatively \ identified \ compound, a \ suspected \ ald ol-condensation \ product.$
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y
 The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc. Kelso, WA State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286 .
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	•
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-







- Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Wastewater

Project No.:

NA

Service Request: K0701934

 Sample Name :
 Lab Code :

 #1 Decanting
 K0701934-001

 #2 Decanting
 K0701934-002

 #3 Decanting
 K0701934-003

 #4 Decanting
 K0701934-004

 Method Blank
 K0701934-MB

Comments:

Columbia Analytical Services 1317 South 13th, Kelso, WA 98626

(360) 577-7222 FAX (360) 636-1068

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Project Manager: <u>Mike Anders</u>	un	_ Compa	ny: Longview Fibre Paper		Containers	Metaly, Total or Dissolved					·	
Company/Address: <u>5901 East N</u>	Iarginal Way	<u>s</u> 1	Phone: <u>206)762-7170</u>		_	ā						
City, State, Zip: <u>Seattle WA 981</u>	134		FAX: 206)767-2442		Number of	Total						
Sampler's Signature:]	tal g			1			
Sample I.D.	Date	Time	LAB ID	Matrix		ž			<u> </u>		REMARKS	
#1 Decanting	3/8/2007	1:392		1	11	Çu				<u>L</u>		
#2 Decanting	3/8/2007	1:3000	1			Cu						
#3 Decanting	3/8/2007	1:3000	າ	1		Cu	<u> </u>			<u></u>	-	
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TURNAROUND REQUIREMEN		R	EPORT REQUIREMENTS		Comments/Special Instructions: I used four small bottles because I didn't have the correct size. All preservative (tablets) were removed.							
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Signature:		Signature:	Mumeirel		Sign	ature:				Signature		
Printed Name: Mike Anderson					Printed Name:					Printed Name:		
Firm: Longview Fibre Paper & Pa	ackaging	Firm:			Firm	Firm:				Firm:		
Date/Time: 3/8/07		1 (/			Date/Fime:					Date/Time:		

Columbia Analytical Services, Inc. Cooler Receipt and Preservation Form

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Client / Project:	RE				Service	Reque	est <i>K07</i> _	019	34	7.		
Received: 3/1/07	Opened:	3/9/0	7	By	y:	All				••		
1. Samples were received via? L	. – 'S Mail	Fed Ex	UPS	_ ·	(DIII)	Co	urier	Hand.	Dalbia	and .		•
				Envelo	NUILE One	Other		nunu .	Denve	reu	NA.	
 Samples were received in: (circle) Were <u>custody seals</u> on coolers? 	NA	10	N Z		-	-		?		iR	MA	
If present, were custody seals inta		\sim	N.					ed and dat		<u>ر د ،</u>	(v)	 N
4. Is shipper's air-bill filed? If not, i			•					ou una uu.		NA	\odot	N
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5. Temperature of cooler(s) upon	receipt (°C	 C):	6.1		·							
Temperature Blank (°C):			1.9									-
6. If applicable, list Chain of Custod	y Number	s:										<u> </u>
7. Were custody papers properly fille	ed out (ink	, signed, etc.)	?			_			_	NA	1	N
8. Packing material used.	Bubb	ble Wrap (Gel Paci	ks	Wet Ice	SI	eeves	Other				
9. Did all bottles arrive in good con	ndition (u	nbroken)? I	ndicate	in the	table bel	ow.					Ý	N
10. Were all bottle labels complete (i	e analysis	, preservation	, etc.)?								${\mathfrak Q}$	N
11. Did all bottle labels and tags agre	e with cus	tody papers?	Indicate	e in th	e table be	elow					\bigcirc	N
12. Were the correct types of bottle	s used for	the tests ind	icated?								\bigcirc	N
13. Were all of the preserved bottles	received a	t the lab with t	the appr	opriat	te pH? In	dicate	in the tab	ole below		NA	Y	N
14. Were VOA vials and 1631 Mercu	ıry bottles	checked for a	bsence (of air l	bubbles?	Indica	te in the i	table belo	w.	(NX)	Y	N
15. Are CWA Microbiology sample	s received	l with >1/2 th	e 24hr.	hold	time rem	aining	from co	llection?		NA.	Y	N
16. Was C12/Res negative?										(NA)	Y	N
			ja hagt as									
Sample ID on Bottle	Samp	le ID on COC	The As of	96 <u>1,6</u> 7	Sample	iD-on E	Sottle	<u> </u>	Sa	mple ID or	i COC:	
				1							·	
				1								
			lact-di	1	Live Vestude		n e la deste la Mississa est si					th the f
Sample ID	Bottle Count	Bottle Type	1 emp	Head- space	Broken	трН	Reage	ent. Vo	lume Ided	Reager Num	t Lot	Initials
ALLSAMPICS	4	COLL				:	HIL	102 1	4141	C(720	29	N
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	-											
	 											
	 											
		ha.	. <u></u>	,	ا السسسا مراج	ا رازر	(. L		L			L
Additional Notes, Discrepancies, &	Resolut	ions:	ettel	1)	not.	á [f	cite	<u>v 6-</u>	<u> </u>	بند (Duy.	resette
Eur 3/12/07		· - · · · ·			·	V >					 	
											000) (<u>8</u>
. •									نِ	Page 1 d	<u>f:</u> 1	1 2

Larry R. Gentile

From: Sent:

Larry R. Gentile [Irgentile@longfibre.com] Saturday, October 20, 2007 9:13 AM

To:

'arnaud.girard@metrokc.gov'

Subject:

Emailing: 1st qtr 2007 wastewater.pdf

Attachments:

1st qtr 2007 wastewater.pdf



1st qtr 2007

wastewater.pdf (7...
rd time's a charm. But this is the last. Note that the reported composite value of 1.36ppm should have been (after adding up the 4 sample values and averaging).1365ppm.

I am doing my math correctly - i hope! :-) See attached pdf. As soon as the results for 3rd quarter are back from the lab I will send that too. I see that our permit is up for renewal in 2008. And though the exp. date is still a year away, what I have come to learn quickly is that in this environmental process, it is a blink of an eye! So my question, when do you suggest I begin the renewal process. Reply at your convenience. Thank you and Regards,

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200

Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

Company Name: Longview Fibre Company

This form is available at http://dnr.metrokc.gov/wir/indwaste

Please specify year: 2006 QUARTER 4 Sample Site No.: A4500 Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copyper, (Cu)			Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	my direction roperly sons who sens who le state. I am ssibility of ratory for each [X]
October										were prepared under qualified personnel program or personnel profit the person or person ing the information, the accurate, and compation, including the poor data requiring a laborate gy accredited laborate
		 _				Total volum	e discharg	ged for October	23890	attachments attachments on my inquiny ble for gather nd belief, tru false informs certify that all nent of Ecolo
	11/17/05	С	+39ppm					824		flaw that this document and all attachmer lance with a system designed to assure it information submitted. Based on my inquitose persons directly responsible for gat, to the best of my knowledge and belief, infificant penalties for submitting false infor or knowing violations. I further certify that by a Washington State Department of Ecosy Signature of Principal Executive or Authorized Agent
Novemebr										document and dystem designed with mind designed basis of sirectly respond from the following the store of the following size of the
Nov										ter penalty of law that this document for in accordance with a system desevaluate the information submitted. I system, or those persons directly resubmitted is, to the best of my know there are significant penalties for suprisonment for knowing violations. I prisonment for knowing violations. I are analyzed by a Washinggn State tested.
	·				7	Total volume	discharge	for November	20480	taw that this may be a thing the second to the best of the best of the second the second to the second the sec
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December										r penalty on in acco in acco in acco in acco in acco waluate the submitted in the account is an analyze and analyze is a analyze is account in a analyze is a ana
Dece										certify under penalty of law that the or supervision in accordance with gather and evaluate the informatic manage the system, or those person information submitted is, to the beaware that there are significant person and imprisonment for knowing analysis were analyzed by a Wasiparameter tested.
								d for December	18060	<u> </u>
->	Maximu	ım daily fl	ow from this	quarter: 2,89	0 gallor	ıs. Date on	which ma	aximum daily fl	ow occurred	l: <u>10/11/06</u>

Due Date: Fourth Quarter Report is due by Jan 15 of each year.

Larry R. Gentile

From:

Larry R. Gentile [Irgentile@longfibre.com]

Sent:

Wednesday, October 17, 2007 10:31 AM

To:

'arnaud.girard@metrokc.gov'

Cc:

'Craig A. McKinney'

Subject:

Overlimit report from 4th qtr 2006

Attachments: 4thqtr 2006 copper sample result.pdf

In review of records during an audit, it was discovered that the report of copper level overlimit submitted by Mike Anderson back on January 22, 2007 was in error. The report from Columbia Analytical reported a sample result of 39 parts per Billion. When the quarterly report was submitted, the result was reported as .39 parts per Million, when in fact it should have been reported as .039 parts per Million. Either way, we were under the permit limit of 3.0 ppm but felt that you should know.

Attached is a pdf copy of the analysis page indicating the sample result.

Regards,

Subject: Longview Fiber Paper and Packaging

Date: Mon, 22 Jan 2007 11:12:35 -0800

From: Mike Anderson <mjanderson@longfibre.com>

To: Amaud.Girard@METROKC.GOV

Good morning Arnaud,

Last quarter we reported over limit on our copper level. We immediately, within week of findings had a representative of Beckart Environmental Inc. come into Plant. The representative suggested some possible causes of our being over limit were:

1. The correct dosage of Poly-100 was not added.

- 2. The 15--30 minutes through mixing/retention time after the Poly V-100 addition was not given.
- 3. Bad check valve between dirty water collection tank and treatment tank.
- 4. The batch could have been contaminated by raw water being transferred on top treated water/sludge while the press was still running.

The representative also took samples to have their (Beckart's) lab test copper level.

The representatives findings are:

1. Copper level was .3ppm (Tested on 10/18/06, non accredited lab.)

2. Found piping from pump to tank across pH probe plugged, and the 3-way actuating valve not working. (Crews were using hand held pH meter during this period of time as they were instructed.)

3. Found decant piping mostly plugged.

4. Found piping from treatment tank to clean water tank mostly plugged.

I also wanted to let you know what we've done to get back into, and remain compliant.

1. Replaced 3-way actuating valve.

2. Taken normal quarterly samples. (Results from Columbia Analytical Services, Inc. taken on November 17th 2006, are .39ppm.)

3. Scheduled PSC in to pump out, and clean all—tanks. Including dirty water collection tank, treatment tank, and clean water collection tank. PSC will do on January 29th and 30th.

4. Scheduled Beckart Environmental, Inc. in on January 31st, February 1st, or as long as it takes to replace galvanized piping with PVC piping. Upgrade pH meter, and solenoid for actuating valve.

Sincerely

Mike Anderson Longview Fibre Paper and Packaging

Mike Anderson < mjanderson@longfibre.com > General Supervisor Longview Fibre Co.



January 15, 2007

Service Request No: K0700158

Mike Anderson Longview Fibre Paper & Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Stormwater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on January 08, 2007. For your reference, these analyses have been assigned our service request number K0700158.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace Ed Wallace

Project Chemist

EW/dj

Page 1 of _____

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

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Columbia Analytical Services, Inc. Kelso, WA State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-







Client:

Longview Fibre Paper & Packaging, Inc.

Service Request No.:

K0700158

Project:

Seattle Stormwater

Date Received:

1/08/06

Sample Matrix:

Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier I data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Two water samples were received for analysis at Columbia Analytical Services on 1/08/06. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°Cupon receipt at the laboratory.

General Chemistry Parameters

Turbidity by EPA Method 180.1 Solids, Total Suspended(TSS) by EPA Method 160.2 pH by EPA Method 150.1

The sample was received past the recommended holding time. The analyses were performed as soon as possible after receipt by the laboratory. The data is flagged to indicate the holding time violation for Turbidity and TSS.

Total Metals

No anomalies associated with the analysis of these samples were observed

Diesel Range Organics by EPA Method 8015B

No anomalies associated with the analysis of these samples were observed

Approved by Sale 115137

000 5

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0700158

Date Collected: 12/05/06

Project Name: Project Number: NA

Seattle Stormwater

Date Received: 01/08/07

Sample Matrix:

WATER

Turbidity

Units: NTU

Analysis Method: 180.1

Test Notes:

Basis: NA

Result Dilution Date/Time Notes Sample Name Lab Code MRL Factor Analyzed Result Х #1,2,3 Roof Drain K0700158-001 0.2 01/08/07 14:40 1.2 Method Blank 01/08/07 14:40 ND K0700158-MB 0.2

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Stormwater

Service Request: K0700158 Date Collected: 12/05/06

Project Number: NA

Date Received: 01/08/07

Sample Matrix :

WATER

Solids, Total Suspended (TSS)

Units: mg/L (ppm)

Analysis Method: 160.2

Test Notes:

Basis: NA

Sample Name	Lab Code	MRL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
#1,2,3 Roof Drain Method Blank	K0700158-001 K0700158-MB	5 5	1	01/11/07 01/11/07	7 ND	X

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0700158

Project Name:

Seattle Stormwater

Date Collected: 12/05/06 Date Received: 01/08/07

Project Number: NA Sample Matrix:

WATER

pΗ

Units: pH UNITS

Basis: NA

Test Notes:

Analysis Method: 150.1

Lab Code

MRL

Dilution Factor

Date/Time Analyzed

Result

Sample Name #1,2,3 Roof Drain

K0700158-001

01/09/07 16:30

Result Notes

5.21

00008

- Cover Page -INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Project No.:

Seattle Stormwater

Service Request: K0700158

Sample Name:

#1,2,3 Roof Drain #1 Decanting Method Blank

Lab Code:

K0700158-001 K0700158-002 K0700158-MB

Comments:

000:9

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Stormwater

Service Request: K0700158
Date Collected: 12/05/06

Date Received: 01/08/07

Project No.: Matrix:

Water

Date Extracted: 01/08/07

Total Metals

Sample Name: Lab Code:

#1,2,3 Roof Drain K0700158-001

Units: ug/L (ppb)
Basis: NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	01/11/07	ND	
Lead	7421	2.0	01/09/07	ND	
Zinc	6010B	10	01/11/07	102	

Analytical Report

Client: Project Name: Longview Fibre Paper & Packaging Inc

Service Request: K0700158 Date Collected: 11/17/06

Project No.:

Seattle Stormwater

Date Received: 01/08/07

Matrix:

Date Extracted: 01/08/07

Total Metals

Sample Name: Lab Code:

#1 Decanting K0700158-002

Water

Units: ug/L (ppb)

Basis: NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	01/11/07	39	

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name: Project No.:

Seattle Stormwater

Service Request: K0700158

Date Collected: 11/17/06

Date Received: 01/08/07

Matrix:

Water

Date Extracted: 01/08/07

Total Metals

Sample Name: Lab Code:

#1 Decanting

K0700158-002

Units: ug/L (ppb)

Basis: NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper `	6010B	10	01/11/07	39	•

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0700158

Project Name:

Seattle Stormwater

Date Collected: NA

Project No.: Matrix:

Water

Date Received: NA

Date Extracted: 01/08/07

Total Metals

Sample Name:

Method Blank

Units: ug/L (ppb)

Lab Code:

K0700158-MB

Basis: NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	01/11/07	ND	
Lead	7421	2.0	01/09/07	ND	
Zinc	6010B	10	01/11/07	ND	

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0700158

Project:

Seattle Stormwater

Date Collected: 12/5/2006

Sample Matrix:

Water

Date Received: 1/8/2007

Oil and Grease

Sample Name:

#1,2,3 Roof Drain

Units: mg/L (ppm)

Lab Code:

K0700158-001

Basis: NA

Test Notes:

Analyte

Prep Analysis Dilution Date Method Method MRL Factor Extracted Analyzed Result

Result Notes

Oil and Grease, Total (HEM)

METHOD

1664

5.0

1/12/2007 1/12/2007

Date

ND

Approved By:

K0700158phe.k=1 · 1 1/15/2007

0.0013

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0700158

Project:

Seattle Stormwater

Date Collected: NA

Sample Matrix:

Water

Date Received: NA

Oil and Grease

Sample Name:

Method Blank

Units: mg/L (ppm)

Lab Code:

K070112-WB

Basis: NA

Test Notes:

Prep Method Analysis Method MRL

1664 -

Dilution

Date

Date Factor Extracted Analyzed Result Result Notes

Analyte

Oil and Grease, Total (HEM)

METHOD

5.0

1/12/2007 1/12/2007

ND

Approved By:

K0700158phc.kcl - MB 1/15/2007

PMM114

Columbia Analytical					CH	ΙΑŀ	N	OF	C	US	TC)D	Y								SR	#:	Ľ	170	0158	_
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#3 roof drain	12/5/06	15.2020	4			·																<u> </u>				
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						-2									-							_				7
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required																									RCLE ONE)	-
II. Report Dup., MS required	, MSD as	l	OUND RE		ENTS	SPE	CIAL	NSTR	UCTIO	ONS/C	OMN	IENTS	S:													7
III. Data Validation I	Report	241		<u>≺_</u> 48 hr.		1																				
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RCOC #1 06/03

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١.	Were custody seals on ou	itside of coo	lers?					(A)	N
2.	Were custody seals intact	 :?	_			·		Ø	N
3.	Were signature and date	present on th	e custody se	eals?				\wp	N
4. 5.	Is the shipper's airbill av	ailable and t	filed? If no,	, record airbill number:_	622871	14842		Y	Ð
	Temperature of coster	upon rec	eipt: (°C)	16.3					
	Temperature Blan	Cu		4.1					
	Were samples hands en ly	2 89943	ande da kas	collection?				Y	M
6.	Were custody papers pro	perly fille	ut (www.; sign	ned, etc.)?				(S)	N
7.	Type of packing magazial			allea	el				
8.	Did all bottles a distin			// 1				Ø	N
9.	DE PORT	700	.e.					(Ø	N
10.								Ø	N ·
11.	and the same of th							Q	N
12.	Page 1	- C 10			pH?			φ	N
13.		MAN TO A STATE OF	O DE LA						N
14.	Were the 1631 Mercury	_ #				pelow?		K	14
	Did the bottles originate	-						Ø	N
16.	Are CWA Microbiolog	y samples re	ceived with	h >1/2 the 24hr. hold ti	me remaining fi	om collection?		لا	N
17.	Was C12/Res negative?							¥	- N
Ex	plain any discrepancies:								
		•					·		
RE	ESOLUTION:								
Sai	mples that required prese	rvation or r	eceived or	it of temperature:					
	Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials		
		 							
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00016



Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste

130 Nickerson Street, Suite 200

Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

Company Name: Longview Fibre Company

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Please specify year: 2005 QUARTER 3 Sample Site No.: A4500 Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

					·					
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu)			. Non-Polar fats, olls & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested. Signature of Principal Executive or Authorized Agent
										under noel property of person of person pers
<u>~</u>										repared d person informs rate, an cluding equiring
July										I certify under penalty of law that this document and all attachments were prepared under my dire or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons when an age the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, frue, accurate, and complete. I aware that there are significant penalties for submitting false information, including the possibility fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for exameler tested. Signature of Principal Executive or Authorized Agent
						Total vo	olume disc	harged for July	24,239	all attachments were a to assure that qualified on my inquiry of the nsible for gathering it and false information, ing false information, ing false information, and the certify that all data artment of Ecology activities a Agent
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August										flaw that this document and all attachmer tance with a system designed to assure the information submitted. Based on my inquitose persons directly responsible for gat, to the best of my knowledge and belief, to the best of my knowledge and belief, inclicant penalties for submitting false infortion knowing violations. I further certify that by a Washington State Department of Exignature of Principal Executive or Authorized Agent
						Total volun	ne dischar	ged for August	22,611	of law that this are dance with a single matter of the best of the
				\.	. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					y of law tordance the infor- or those or those significa nt for kno ied by a
mber				5	March 2	lbm				penalty in accordinate to ystem, ystem, bmitted sonmen analyze
September	9/27/06	Grab	7.42ppm					847		I certify under penalty or supervision in accordather and evaluate it manage the system, cinformation submitted aware that there are sine and improvementalysis were analysis were analysis were analysis were analysis were
					_			for September	21,266	l
->	Maximu	um daily fl	low from this	quarter: 264	6 gallons.	Date on wh	ich maxin	num daily flow	occurred: 7/	12/05

Due Date: Third Quarter Report is due by October 15 of each year..

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Project No.: Matrix:

Seattle Wastewater

Water

Service Request: K0608377

Date Collected: 09/27/06

Date Received: 09/29/06 Date Extracted: 09/29/06

Total Metals Units: ug/L (ppb)

Analyte:

Copper

EPA Method:

200.7 10

Method Reporting Limit:

Date Analyzed:

10/03/06

Sample Name

Lab Code

#1 Decanting Method Blank K0608377-001 K0608377-MB

742 ND



October 6, 2006

Service Request No: K0608377

Mike Anderson Longview Fibre Paper & Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Wastewater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on September 29, 2006. For your reference, these analyses have been assigned our service request number K0608377.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/lmb

Page 1 of ______

NELAP Accredited

ACIL Seal of Excellence Award

€ 100% Resocied

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

00002

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the clution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

00003

- Cover Page -INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Wastewater

Project No.:

Service Request: K0608377

Sample Name:

#1 Decanting

Method Blank

Lab Code:

K0608377-001 K0608377-MB

Comments:

nnna

Columbia Analytical Services MC An Employee - Owned Company	1317	' South 13t	h Ave. • Ke	lso, WA 9			N (636-10	068	Р	AGE	i		. OF	SR	#:	_ <i>K</i> _co	060 C#_	0837	7
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REPORT REQUIREMENTS I. Routine Report: Metho Blank, Surrogate, as required		P.O. # _	ICE INFOR		_	Tot Dissol		ls: Al als: Al	As As	Şb Ba	a Be a Be	ВС	Cd	Co (Cr Cu	Fe	Pb N	√lg M	n Mo	Ni	K Ag	Na Na		Sr TI	Sn V Zn Hg Sn V Zn Hg CLE ONE)	- 1
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III. Data Validation Repor (includes all raw data)	١ .		ay ndard (10-15		days)																					
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	jec LVS John 129	LOTO A	Cooler	ia Analytical Ser Receipt and Prese ICHA Pened on 9/29/		K06 08	377 vl)	J	
1.	Were custody seals on ou		olers?	. 0	oy_	J. J.	<u> </u>	\mathscr{Q}	И
	If yes, how many and	i where?	17,1	<i>b</i>					
2.	Were custody seals intact	?						\odot	И
3.	Were signature and date p	resent on ti	ne custody	seals?				$\langle y \rangle$	N
4. 5.	Is the shipper's airbill av	ailable and	filed? If no	o, record airbill numbe	er:			<i>(</i>)	N
	Temperature of cooler(s) upon rec	eipt: (°C)	14. j		<u> </u>			
	Temperature Biank:	(°C)		18.6					
	Were samples hand delive	red on the s	same day as	scollection?	, , 1		•.*	Y	©
6.	Were custody papers prop	erly filled g	out (ink, sig	med, etc.)?	not signed		•	Y	N
7.	Type of packing material	present \mathcal{H}	AW NO	arm gel pks,	SICCVES				
8.	Did all bottles arrive in g	good condi	tion (unbro	oken)?				\mathscr{D}	N
9.	Were all bonte labels com	plete (i.e ar	alysis, pre	servation, etc.)?				\odot	N
10.	Did all bottle labels and	tags agree v	vith custody	y papers?				Y	N
11.	Were the correct types (of bottles u	sed for the	tests indicated?				φ	N
12.	Were all of the preserved	bottles rec	eived at the	lab with the appropria	ite pH?			Ŷ	N
13.	Were VOA vials checked	for absenc	e of air bub	bles, and if present, no	oted below?			·¥	<u> </u>
14.	Were the 1631 Mercury b	ottles checl	ked for abso	ence of air bubbles, an	d if present, noted l	below?		Y	<u>—————————————————————————————————————</u>
15.	Did the bottles originate i	rom CAS/k	C or a branc	h laboratory?		,		Ø q	- (N)
16.	Are CWA Microbiology	samples re	eceived wit	h >1/2 the 24hr. hold	time remaining f	rom collection?		A	<u></u>
17.	Was C12/Res negative?							-Y	~_и
Exp Jill	lain any discrepancies:	Adoled bor	Roof o Bludge	train time	of islo to	COC.			
R F.S	SOLUTION:							•	
,	noles that required preser	vation or r	eceived or	ut of temperature:					
	Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials		
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BECKART ENVIRONMENTAL, INC. BECKART ENVIRONMENTAL LAB REPORT (041)

(For internal use only)

Date Received:		10/18/06	Sample #:	П	06-173-1,2
Date Treated:		10/18/06	Doc. Name	:	LongSeattleCuF
Distribution:					
Sales Engineer:		Greg O'Brien			
Sales Rep.:					
	F	ollowing results found	based on the	sam	ple received.
Client:		Long	view Fiber		
Location:		Sea	ttle, WA		
Reason for testing:		Troubleshoot-Co	pper compliar	ice i	ssues
Industry / Type of		Co	rrugator		
wastewater:					
Volume:			llons per Day		
Discharge	<u>Рагаг</u>		mg/l)		Raw (mg/l)
Requirements:	Copp				140
Appearance:		06-173-1 (raw			
		06-173-2 (Poly-V 100) sample) ligh		
Initial pH:		06-173-1: 9.3			.173-2: 11.2
CHEMISTA	XYRI	EQUIRED FOR 1	00 ML SA.	MF	PLE
Dilution Required: None					
Chemical used-		Volume (ml) per 100m	il sample - p	H	
PolyMac 2-4619		0.4		0.0	21.6 gal.
Caustic @ 25%		0.15	. \ 8	3.0	
Poly-V 100		0.05] 8	3.5	2.7 gal. Mix
					20 minutes
Polymer B-40 + @ 0.5%		1.5			
Final pH			8.4_		
Appearance of Treated W	ater:	*Clarity:	9.5-10, clear,	pink	k tint
Testing on Treated Water	:	Parameter	Co	once	entration (mg/l)
		Copper	-	.03	
		Copper (using 06-173		.03	
Testing on Sludge:		19% Wet sludge as	•		e. Floc: settles
		<u>D</u>	rainage: good	<u> </u>	

Comments:

- *Clarity is based on a scale of 1-10, 10 being of clarity similar to that of potable water.
 - The suspect Poly-V 100 seems to be active based on copper test results. The specific gravity (1.18) and pH (11.2) are within the allowable range.
 - We likely causes of the elevated copper reading of approximately 7 mg/L are as follows:
 - 1. The correct dosage of Poly-V 100 was not added (correct dosage can be verified visuallay by tote level and noted on treatment log sheet by operator. The raw water copper level of 140 mg/L is much greater than the level of 53 mg/L tested

Issued By: Naomi Levy Approved By: Tom Fedrigon

Page 1 of 2

Revision: A 6/11/99

- approximately one year ago. This level should be periodically tested to ensure the Poly V-100 dosage is proportional.
- 2. The pH was not at the optimal pH of ~8.0, before the Poly V-100 addition.
- 3. The 15-30 minutes thorough mixing/retention time after the Poly-V 100 addition was not given.
- 4. The batch could have been contaminated by raw water being transferred on top of treated water/sludge while the filter press was still running. The mixture of some high copper level raw water would skew the result high, while not having a dramatic effect on the appearance of the treated water.

5. But which value let water from treatment tank Sighen back through piping ???

Tested Pump V-100 OK

- Found piping from pump to tank across pt probe

completly pluged, its 3-biny extuating value not

avorting

- Found devant piping em plugged

- Found piping from treatment tout to CW tank

Mostly plugged

Issued By: Naomi Levy Approved By: Tom Fedrigon

Page 2 of 2

Revision: A 6/11/99

Larry R. Gentile

From:

Larry R. Gentile [Irgentile@longfibre.com]

Sent:

Saturday, October 20, 2007 8:56 AM

To:

arnaud.girard@metrokc.gov

Subject:

Emailing: 3rd qtr 2006 wastewater.pdf

Attachments: 3rd qtr 2006 wastewater.pdf

More FYI

I should have held off on the last e-mail. The very next one was in error also. Note that our reported value for Cu of 7.42ppm was, per the analysis, in fact .742ppm.

Getting better all the time! See attached pdf. regards,

<<...>>



October 6, 2006

Service Request No: K0608377

Mike Anderson Longview Fibre Paper & Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Wastewater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on September 29, 2006. For your reference, these analyses have been assigned our service request number K0608377.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Wellace

Project Chemist

EW/lmb

NELAP Accredited

ACIL Seal of Excellence Award

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldoi-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation enteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The thromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y

 The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

- Cover Page -INORGANIC ANALYSIS DATA PACKAGE

Client:	
---------	--

Longview Fibre Paper & Packaging Inc

Project Name: Project No. :

Seattle Wastewater

Service Request: K0608377

Sample Name:

#1 Decanting Method Blank

Lab Code:

K0608377-001 K0608377-MB

Comments:

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name :

Project No.: Matrix:

Seattle Wastewater

Water

Service Request: K0608377 Date Collected: 09/27/06

Date Received: 09/29/06

Date Extracted: 09/29/06

Total Metals Units: ug/L (ppb)

Analyte:

EPA Method:

Copper

200.7 10

Method Reporting Limit: Date Analyzed:

10/03/06

Sample Name

Lab Code

#1 Decanting Method Blank K0608377-001 K0608377-MB 742 ND

Comments:

Columbia Analytical Services Inc.		47.0 st sa					N (P	AGE			OF	SR	#:	_ <i>K</i>	:060	08377
PROJECT MUMBER PROJECT MUMBER PROJECT MUMBER COMPANYADDRESS LONG MUCH FAST CUTY ALEXA CAT-LE WALL ADDRESS PROJECT PROJECT MUMBER PR	cetew whee t Margi 14 de 2 long	aper nali	(e) 767-	iging uth		ONTAINERS		Volatile O. 8270 1 827, GCMS	1/1/ 8/20/16/20 1/1/1/20/20/20/20/20/20/20/20/20/20/20/20/20/	See below) BTEX []	Screen (FIQ)	1868.5	Diss.	88 88	815140	7	below) Dissolved	7	350.4.50, 150.4. F. M.S.	Total.p S (circle) 2. NO 21 NO TKN, TOTAL	10 10 10 10 10 10 10 10 10 10 10 10 10 1	D 905			REMARKS
AMPLE I.D.	DATE	TIME	LAB I.D.	MATHIX		<i>.</i>		7-9				12 4	/- %	/				-		/	_	_	_		<u></u>
tt / decanting	9/27/	06 40	2		1											~									
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REPORT REQUIREM I. Houtine Report: Blank, Surrogate required II. Report Dup., MS required III. Data Validation I (Includes all raw IV. CLP Deliverable V. EDD	Method e, as 6, MSD as Report data) Report	P.O. # Bili To: TURNA 5 5 9		QUIREM 48 hr. 5 working	ENTS	Disso DISSO		als: Al	As I As TEHY	ŞЬ B Sb E	a Be Ba Be	B C	a Cd	Со	Ct C	u Fe	Pb	Mg N	in Mo	o Nł	K A	g Na		Sr TI	Sn V Zn Hg Sn V Zn Hg RCLE ONE)
MMM RELINQUIS	7/21/1 Daje/Ilm	6 4'34	المراجعة	fres	REC.	EIV 9	BY: Date/Ty	91	19/0	X	/OC Sig) nature		LINQ		D BY				Sign	ature		ECEI	/ED B	f: o/Time
Printed Name	FUOIS A	7/6W/7		144		أحمللا	W (1	بر	-	Dei	ated K	lama		_ <u>_</u>	rm.			.	Delet	ad Na			Flm	

Pro	jec LV		ETE 1885	oia Analytical Ser Receipt and Pres		Р : K06_ <i>О</i> 8	c2	Z	
Cod	oler received on 129	1/06	and o	pened on	do by	<u> </u>			
1.	Were custody seals on of		olers?	18		·		\mathscr{Q}	И
2.	Were custody seals intac			· · · · · ·				\odot	N
3.	Were signature and date	present on t	he custody	seals?				(Y)	И
4. 5.	Is the shipper's zirbill zo	ailable and	filed? If n	o, record airbill numb	er:			<i>③</i>	И
	Temperature of cooler	(s) upon re	ceipt: (°C)	_/4./					
	Temperature Blank:	(°C)		18.6					
	Were samples hand delive				, . 1		٠,٠	Y	Ð
6.	Were custody papers pro-	perly filled	put (ink., si	med, etc.)? 1,000	not signed			Y	W
7.	Type of packing material	present H	aw N	arm ger pics,	SICCVES				
8.	Did all bottles arrive in	good condi	tion (unbr	oken)?				\mathscr{D}	И
9.	Were all bottle labels con	nplete (i.e at	nalysis, pre	servation, etc.)?				Ð	N
10.	Did all boule labels and	tags agree v	with custod	y papers?				Y	N
11.	Were the correct types	of bottles u	sed for the	tests indicated?				arphi	N
12.	Were all of the preserved	bottles rec	ived at the	lab with the appropri	ate pH?			lacksquare	N
13.	Were VOA vials checked	l for absenc	e of air but	obles, and if present, n	oted below?			Y	<u> </u>
14.	Were the 1631 Mercury i	oottles chec	ked for abs	ence of air bubbles, ar	nd if present, noted	below?		4-	—— <u>N</u>
15.	Did the bottles originate i	from CAS/k	or a branc	h laboratory?				Ø 4	- (N)
16.	Are CWA Microbiology	samples re	eceived wit	h >1/2 the 24hr, hold	i time remaining f	rom collection?		<u> </u>	<u>— N</u>
17.	Was C12/Res negative?	1 - 1 - 3	•			1			<u></u> W
Exp	lain any discrepancies:	Added "	Roof o	my time	of 15/0 to	COC.			
	141 142 (100	022	Sitting	- Milyton					
									
RES	OLUTION:							,	
Sam	ples that required preser	vation or r	eceived or	ut of temperature:		•			
						Rec'd out of		}	
	Sample ID	Reagent	Volume	Lot Number	Bottle Type	Temperature	Initials		
		-				<u> </u>	<u> </u>	}	
		 		·					
									
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]	
]	
								1	

Seattle Water Treatment Sample Log

Date: 9/27/06
Any oil sheen present? No
Any odor present? <u>No</u>
Any noticeable turbidity? None
Color: Desay Orange Ant- (light)
Cl

Larry R. Gentile

From:

Larry R. Gentile [Irgentile@longfibre.com]

Sent:

Saturday, October 20, 2007 8:43 AM

To:

'arnaud.girard@metrokc.gov'

Subject:

2nd Quarter 2006 Wastewater results

Attachments: 2nd qtr 2006 wastewater.pdf

FYL

I am in the process of reviewing past documents to better familiarize myself with the project; and as I find errors, I will report them to you on a case basis.

In the 2nd qtr 2006, Cu was reported as **1.14ppm** when in fact it should have been **.114ppm** See attached pdf.

Regards,



Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200

Seattle, WA 98109-1658 Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr,metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Company

Please specify year: 2006 QUARTER 2 Sample Site No.: A4500 Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

				▼			<u> </u>			
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu)			Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	r my direction roperly sons who he plete. I am sassibility of oratory for each and a factory or each and a factor for each an
il							·	·		ired under strong to the post of the post
April						Total vo	lume discl	narged for April	27310	ment and all attachments were preparent and all attachments were preparent of designed to assure that qualified per tited. Based on my inquiry of the percely responsible for gathering the informowedge and belief, true, accurate or submitting false information, includ ins. I further certify that all data requisite Department of Ecology accredit
										law that this document and all attachmer ance with a system designed to assure the information submitted. Based on my inquivose persons directly responsible for gat, to the best of my knowledge and belief, inficant penalties for submitting false information yiolations. I further certify that by a Washington State Department of Extension of Authorized Agent Signature or Principal Extensions or Authorized Agent
May					اک ایا					I certify under penalty of law that this document and all attacor or supervision in accordance with a system designed to assigned to asy apprevision in accordance with a system designed to assed on m manage the system, or those persons directly responsible for information submitted is, to the best of my knowledge and be aware that there are significant penalties for submitting false fine and imprisonment for knowing violations. I further certificate and systement of a Washington State Department, parameter tested.
				Show	De '	Total vo	lume disc	harged for May	21340	with a with a with a substantial and the person in the penson in the pen
	6/12/06	Composite	1.14ppm					1364		certify under penalty of law that this consider and evaluate the information sugather and evaluate the information submitted is, to the best of aware that there are significant penaltifies and imprisonment for knowing violanalysis were analyzed by a Washing parameter tested.
June						,				r penalty n in acconvaluate lystem, system, ubmitted ere are ere are isonmen a analyz
Jr Of										certify under per or supervision in gather and evaluation in manage the systeminomation submaware that there fine and imprison analysis were an parameter tested
								arged for June	<u> </u>	<u>L</u>
▶	Maximu	um daily fl	ow from this	quarter: 437	<u>'9</u> gallon	s. Date on v	which ma	ximum daily flo	w occurred:	<u>3/22/05</u>

Due Date: Second Quarter Report is due by July 15 of each year.

Analytical Report

Client:

Longview Fibre Paper and Packaging Inc.

Project Name: Project No.:

Seattle Water Treatment Plant

Matrix:

NA Water

Service Request: K0604838 Date Collected: 06/12/06 Date Received: 06/14/06 Date Extracted: 06/14/06

Total Metals Units: ug/L (ppb)

Analyte:

Copper

EPA Method:

200.7

Method Reporting Limit:

20

Date Analyzed:

06/15/06

Sample Name

Lab Code

#1 Decanting Method Blank K0604838-001

114

K0604838-MB

ND

Comments:



June 19, 2006

Service Request No: K0604838

Mike Anderson Longview Fibre Paper and Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Water Treatment Plant

Dear Mike:

Enclosed are the results of the rush sample(s) submitted to our laboratory on June 14, 2006. For your reference, these analyses have been assigned our service request number K0604838.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/cb

Page 1 of _______

NELAP Accredited

ACIL Seal of Excellence Award

🧙 100% Recycled

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fungerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product cluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

- Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Paper and Packaging Inc.

Project Name:

Seattle Water Treatment Plant

Project No.:

NA

Service Request: K0604838

Sample Name:

Lab Code:

#1 Decanting Method Blank K0604838-001

K0604838-MB

Comments:

Approved By: Date: Co 16 do 10014

Columbia Analytical				CH	łΑl	IN (OF	C	US	TC)D	Υ								SR	#:	Ko	40	14838
Services INC	17 South 13	th Ave. • Ke	lso, WA 9	8626 •	(360)	577-72	22 • ((800) E	395-722	22x07	• FAX	(360)	636-10	068	F	PAGE	<u> </u>		_ OF		_			
PROJECT NAME SEATH PLANSIEU PROJECT NUMBER PROJECT MANAGEN ALLE HANDENSON COMPANY/ADDRESS LONGVIEW FOR Paper 570 (East Margin CHY/STATERITY WHILE WHILE WHILE CHY/STATERITY WHILE WHILE WHILE	Saker 1 + Packe al wai 134	ging, Soutt	<u> </u>		CONTAINERS		Phies by GCME		See below) BTEX	7	1684 C	12 SGT 12	//	15147	Matals T SIM CIP CO	Cyanic Delow Dissolved	PH. Cond Hex-Chr.	NH3. BOO 1884, PO TO	10x 0 (diele) 10ist, 10 (diele) 2, 170x 0	70' Com Dozoe	100 200 P			REMARKS
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REPORT REQUIREMENTS	•	DICE INFOR		4	Circle	e which	metals	are to	be ana	alyzed:		•												
I. Routine Report: Method					То	tal Meta	als: Al	As	Sb B	а Ве	ВС	Ć d	Co	cr (Gi) Fe	Pb I	Mg №	in Mo	iN c	K Ag	Na	Se S	r TI	Sn V Zn Hg
Blank, Surrogate, as																								Sn V Zn Hg
required					IND	ICATE	STA	TE H	/DRO	CARB	ON P	ROCE	DURE	: Al	C/	WI	NO	RTHV	VEST	ОТН	ER:		(CIR	CLE ONE)
II. Report Dup., MS, MSD as required	TURNAF	ROUND RE	QUIREM 48 hr.	ENTS	SPE	CIAL II	NSTR	UCTI	ONS/C	СОММ	ENTS	3 :												
III. Data Validation Report	5 0	-	48 nr.		1																			
(includes all raw data)	1	andard (10-15	working	days)																				•
IV. CLP Deliverable Report	Pro	ovide FAX Re	sulls																					
V. EDD																								
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Printed Name

Firm

Printed Name

Columbia Analytical Services Inc. Cooler Receipt and Preservation Form

PC 쉳

Pro	ject/Client_W}	inc.			Service Request	K06 04	138		
Co	oler received on	eliflae	and op	pened on le [14]	To by	Lan	L		
1.	Were custody seals on o	utside of cod	olers?					Y	A)
	If yes, how many at	CONTROL OF							
2.	Were custody seals intar							Y	Ø
3.	Were signature and date	and the second	he custody	seals?				Y	Š
4.	Is the shipper's airbille	allable and	filed? If n	o, record airbill number:	5-2550	487441		Y	(F)
5.	COC#								
	Temperature of cooler	upon rec	eipt: (°C)						
	Temperature Blank:	()		4.5					
	Were samples hand deliv	ered on the	same day as	s collection?				Y	©
6.	Were custody parters of	y filled	out (ink, sig					\odot	N
7.	Type of packing material	nresent		glipulis					
8.	Did all bottles arrive in	good condi	tion (unbr	oken)?				.G	N
9.	Were all bottle labels cor	nplete (i.e aı	alysis, pre	servation, etc.)?				RD	N
10.	Did all bottle labels and	tags agree v	vith custod	y papers?	•			E)	N
11.	Were the correct types	of bottles u	sed for the	tests indicated?				φ	N
12.	Were all of the preserve	d bottles rec	eived at the	lab with the appropriate	pH?			\wp	N
13.	Were VOA vials checke	d for absenc	e of air bub	bles, and if present, note	ed below?			<u>-Y</u>	N
14.	Were the 1631 Mercury	bottles chec	ked for abs	ence of air bubbles, and	if present, noted	below?		<u> </u>	N
15.	Did the bottles originate	from CAS/k	or a branc	h laboratory?				Ø.	N
16.	Are CWA Microbiolog	y samples r	eceived wit	h >1/2 the 24hr. hold to	ime remaining f	rom collection?		- ¥	
17.	Was C12/Res negative?							¥	N
Exp	lain any discrepancies:								
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RES	SOLUTION:								
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Sam	iples that required prese	rvation of r	eceived of	ut of temperature:					
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	Sample ID	Reagent	Volume	Lot Number	Bottle Type	Temperature	Initials		
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Seattle Water Treatment Sample Log

Date: 10/12/06
Any oil sheen present? None
Any odor present? No
Any noticeable turbidity?
Color: <u>Orange/redish</u> Hint
Clean water nut: 7,6

Larry R. Gentile

From:

Larry R. Gentile [Irgentile@longfibre.com]

Sent:

Saturday, October 20, 2007 8:43 AM

To:

'arnaud.girard@metrokc.gov'

Subject:

2nd Quarter 2006 Wastewater results

Attachments: 2nd qtr 2006 wastewater.pdf

FYI

I am in the process of reviewing past documents to better familiarize myself with the project; and as I find errors, I will report them to you on a case basis

In the 2nd qtr 2006, Cu was reported as **1.14ppm** when in fact it should have been .**114ppm** See attached pdf.

Regards,



Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Company

Please specify year: 2006

QUARTER

1

Sample Site No.: A4500

Permit/DA No.: <u>631-02</u>

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

				▼	Y					
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu)			Non-Pular fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	prepared under my direction led personnel property e person or persons who is information, the urate, and complete. I am including the possibility of requiring a laboratory for each credited laboratory for each and the property of the possibility of the possibility of the property of the property of the possibility
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January										ere Jeth Jeth Jeth Joh, Joh, Jacata
						Total volum	e discharg	ged for January	30,100	attachments were assure that quality on my inquiry of th ole for gathering the not belief, true, acc false information, earity that all data man of Scology accounts of the contract of the co
										I certify under penalty of law that this document and all attachments wor supervision in accordance with a system designed to assure that question supervision in accordance with a system designed to assure that the and evaluate the information submitted. Based on my inquiry continuation submitted is, to the best of my knowledge and belief, true, aware that there are significant penalties for submitting false informating fine and imprisonment for knowing violations. I further certify that all danalysis were analyzed by a Washington State Department of Ecological parameter tested.
February										ument an design itted Basin in design itted Basin itted Basin in State De S
Fe										this docu a syster on subm sons dire sst of my est of my enalties f g violatio hington
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	3/8/06	Composite	1.94 ppm					400		y of law or those or those or those or those significant for known tor known tor known to by a signature.
March	, 									I certify under penalty of law that this document or supervision in accordance with a system designather and evaluate the information submitted. manage the system, or those persons directly reinformation submitted is, to the best of my know aware that there are significant penalties for subfine and imprisonment for knowing violations. I analysis were analyzed by a Washington State I parameter tested.
Ma										certify under per or supervision in a gather and evalual gather and evalual manage the systemitormation submaware that there in analysis were ananalysis were ananameter tested parameter tested
								arged for March	27,310	
_►	Maximu	um daily fl	ow from this	quarter: 3530	<u>0</u> gallon	s. Date on v	which ma	ximum daily flo	w occurred:	<u>1/26/06</u>

Due Date: First Quarter Report is due by April 15 of each year.

Analytical Report

Client:

Longview Fibre Paper and Packaging Inc.

Project Name:

Project No.:

Matrix:

Water

Seattle Wastewater

Service Request: K0601918 Date Collected: 03/08/06

Date Received: 03/10/06

Date Extracted: 03/10/06

Total Metals Units: ug/L (ppb)

Analyte:

EPA Method:

Copper 6010B

10

Method Reporting Limit:

Date Analyzed:

03/13/06

Sample Name

Lab Code

#1 decanting Method Blank K0601918-001 K0601918-MB 1940 ND

Comments:



March 15, 2006

Service Request No: K0601918

Mike Anderson Longview Fibre Paper and Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Wastewater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on March 10, 2006. For your reference, these analyses have been assigned our service request number K0601918.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/jeb

Page 1 of ______

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

POL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- I The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

- Cover Page -INORGANIC ANALYSIS DATA PACKAGE

Client: Project Name: Longview Fibre Paper and Packaging Inc

Seattle Wastewater

Service Request: K0601918

Project No.:

Sample Name:

#1 decanting Method Blank

Lab Code:

K0601918-001 K0601918-MB

Comments:

00004 Date:

							HAIN OF CUSTODY										SR#: KO601918								
Services NC.	1317 South 1	3th Ave. • Ke	elso, WA 9	8626	(360)	577-72	22 •	(800) 6	95-72	22x07	• FAX	(360)	636-10	068	F	PAGE	Ē		_ OF			_co)C #_		
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REPORT REQUIREMENTS		OICE INFOR		V V		which						L	l	ـــــا مَ	L!	L	<u> </u>	L	L		!	L		L	
I. Routine Report: Metho		P.O. # Bill To:			Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg																				
Blank, Surrogate, as required	l —					Dissolved Metals: At As Sb Ba Be B Ca .Cd Co Cr Cu Fe Pb Mg Mn *INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORT																			
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III. Data Validation Repor	·	Day																							
(includes all raw data) Standard (10-15 working			_	days)																					
IV. CLP Deliverable Repo	л Р	rovide FAX Re	esulls																			•			
V. EDD	F	Requested Rep	port Date																						
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Columbia Analytical Services Inc. Cooler Receipt and Preservation Form

PC Ed W.

Pro	ject/Client	ew fr	<u>hi</u>		Service Request I	K06 <i>j9/</i>	18'		
Cod	ject/Client	3/10/00	and ope	ened on	/ ひ <u></u> by_	PStack	·		
1.	Were custody seals on out			Chair				Y	· N
	If yes, how many and	where?		Trut	•				
2.	Were custody seals intact?					•		Õ	N
3.	Were signature and date p	resent on th	e custody s	eals?				Ø	N
4.	ls the shipper's airbill ava	ilable and f	filed? If no	, record airbill number:				\mathfrak{Q}	N
5.	COC#								
	Temperature of cooler(s) upon rec	eipt: (°C)				_		
	Temperature Blank:	(°C)		2.3					
	Were samples frand deliver	ed on the s	ame day as	collection?				\wp	N
6.	Were custody papers prop	erly filled o	ut (ink, sig	ned, etc.)?	•			Θ	N
7.	Type of packing/material	oresent		9	claudes				
8.	Did all bottles arrive in g		ion (unbro	oken)?				(Y)	N
9.	Were all bottle labels com							Ø	N
10.	Did all bottle abel and							8	N
11.	Were the correct types of	•						<i>S</i>	N
12.	Were all of the preserved	į.			е рН?			Ø	N
13.	Were VOA vials checked			•				·¥	N
14.	Were the 1631 Mercury b			-		nelow?		cY	N
15.	Did the bottles originate f				in present notes	,010111		Y 2	N
16.	Are CWA Microbiology			_	time remaining fr	om collection?		¥	N
17.		sumples 1	corred wit	n · 1/2 the 24hi. hold		our concention.		·	KJ
	plain any discrepancies:							•	
LA	main any discrepancies								
RE	SOLUTION:								
				•					
San	nples that required preser	vation or r	eceived or	ut of temperature:					
	Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials		
	 -								
					•				
				•	1				

Seattle Water Treatment Sample Log

Date: 3866
Any oil sheen present? None
Any odor present? None
Any noticeable turbidity?
Color: Orange that
Clean water nH: 7, 2

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

Company Name: Longview Fibre Company

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Please specify year: 2005 QUARTER 4 Sample Site No.: A4500 Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

			· · · · · · · · · · · · · · · · · · ·			Non-Polar				
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)				fals, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all gata requiring a laboratory for each parameter tested.
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October								·		y of law that this document and all attachments were prepared under my direction or a system designed to assure that qualified personnel properly the information submitted. Based on my inquiry of the person or persons wor those persons directly responsible for gathering the information, the disk, to the best of my knowledge and belief, true, accurate, and complete, significant penalties for submitting false information, including the possibility at for knowing violations. I further certify that all gata requiring a laboratory for the dry a Washington State Department of Ecology accredited laboratory for the signature of Principal Executive or Authorized Agent
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- ▶	Maximu	ım daily fl	ow from this	quarter: 3,4	30 gallor	s. Date on	which ma	aximum daily fl	ow occurred	: 10/28/05

Due Date: Fourth Quarter Report is due by Jan 15 of each year.

Analytical Report

Client:

Longview Fibre Company

Project Name:

Project No.:

Seattle Wastewater

Service Request: K0505844

Date Collected: 11/14/05

Date Received: 11/15/05 Date Extracted: 11/21/05

Matrix:

Water

Total Metals Units: ug/L (ppb)

Analyte:

EPA Method:

Copper 200.7

Method Reporting Limit:

10

Date Analyzed:

11/29/05

Sample Name

Lab Code

#1 Decanting (composite sam

K0505844-001

1010

Method Blank

K0505844-MB

ND

Comments:



December 1, 2005

Service Request No: K0505844

Mike Anderson Longview Fibre Company 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Wastewater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on November 15, 2005. For your reference, these analyses have been assigned our service request number K0505844.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

3_____

Ed Wallace

Project Chemist

EW/jeb

Page 1 of

cc: Hank Rakoz, Longview Fibre

NELAP Accredited

ACIL Seal of Excellence Award

🕰 100% Recorder

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the clution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

- Cover Page -INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Company

Project Name:

Project No. :

Seattle Wastewater

Service Request: K0505844

Sample Name:

#1 Decanting (composite sample) Method Blank

Lab Code:

K0505844-001 K0505844-MB

Comments:

Columbia Analytical	CHAIN OF CUSTODY								Y	,						SR	SR#: KO505876 COC#									
Services INC.	131	7 Şouth 13t	h Ave. • Kel	lso, WA 9	8626 •	(360) 5	577-722	2 • (800) 6	95-722	22x07	• FAX	(360)	636-10)68	Р	AGE	<u> </u>		OF	<u>.</u>	_	_ co	C#_		•
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I. Routine Report: Metho	od					Tota	ai Metal	s: Al	As	Sb В	а Ве	ВС	Cd	Co (Cr (Ci	Fe .	Pb N	√lg M	n Mo	Ni	K Ag	Na	Se S	ir TI	Sn V Zn Hg	
Blank, Surrogate, as required					[_						Se :		Sn V Zn Hg	
II. Report Dup., MS, MS	D as	TUDMAD	OUND REC	TUDEM	ENITS		CATE							DURE	: AK	CA	WI	NO	RTHW	/EST	ОТН	ER:		(CIF	RCLE ONE)	-
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III. Data Validation Report (includes all raw data)		5 D	•																							
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				a Analytical Services		PC	<u> </u>	iV :	•
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Co	oler received on	16/05	and ope	ened on 11/15/0	<u>j</u> by	Aduci	<u>/ </u>		
1.	Were custody seals on o		. 4	Dute				6	N
2.	Were custody seals intac		A.V. 3	V				(A)	N
3.	Were signature and date		e custody s	eals?				(8)	N
4. 5.	Is the shipper's airbill a COC#	•	=					\$ 	N
	Temperature of cooler Temperature Blank:	r(s) upon rec (°C)	eipt: (°C)	1.4					
	Were samples hand deliv	ered on the s	ame day as	collection?				Y	
6. 7.	Were custody papers pro Type of packing materia		ut (ink, sign	ned, etc.)?				$\langle \mathcal{A} \rangle$	N
8.	Did all bottles arrive in	good condit	ion (unbro	ken)?				(Y)	N
9.	Were all bottle labels con	mplete (i.e an	alysis, pres	ervation, etc.)?				(A)	N
10.	Did all bottle labels and	l tags agree w	ith custody	papers?				(Ý)	N
11.	Were the correct types	of bottles us	sed for the	tests indicated?				(2)	N
12.	Were all of the preserve	d bottles rece	ived at the	lab with the appropriate	pH?			O	N
13.	Were VOA vials checke	d for absence	of air bubl	oles, and if present, note	ed below?			¥	₩,
14.	Were the 1631 Mercury	bottles check	ed for abse	nce of air bubbles, and	if present, noted I	below?		. Y	14
15.	Did the bottles originate	from CAS/K	or a branc	h laboratory?				Y	\odot
16.	Are CWA Microbiolog	y samples re	ceived with	h > 1/2 the 24hr. hold t	ime remaining f	rom collection?		- Y	N_
17.	Was C12/Res negative?							<u>Y</u>	<u>N</u>
Exp	plain any discrepancies:								_ _
									
RE	SOLUTION:								
<u>Sar</u>	nples that required prese	ervation or r	eceived or	at of temperature:					
	Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials		
							-		
							;		

Seattle Water Treatment Sample Log

Date: 11/14/05
Any oil sheen present?
Any odor present? None Any noticeable turbidity? 1/2
Color: Orange fint
Clean water nH 7.3

LFCo. Lab Service Memorandum

No. 12204

Date: 14 NOV 2005

Subject: Copper in Seattle Water Treatment Sample

Keywords: Copper, Seattle, Water Treatment

Requested by: Dave Mendenhall Performed by: Colleen Roulette

Source and Description of Sample:

One sample from Seattle's Water Treatment (Beckart Treated Water), dated 11/03/05, was brought to the Project lab for analysis. Additional data on the sample bottle was: "1.00 minute poly V-100 \sim 3 Gal. In 5700 Gal. Batch".

Analytical Methods and Procedures:

Copper was run on the Unicam 969 Solaar AA.

Results:

	ppm Copper
Treated	0.690





Confirmation of Sample Receipt

To:	Mike Anderson	From:	Ed Wallace
Email:	mjanderson@longfibre.com	Email:	EWallace@kelso.caslab.com
Fax:	206-767-2442	Fax:	360-636-1068
Phone:	206-762-7170	Phone:	360-577-7222 x3291

Samples for analysis have been received by Columbia Analytical Services on 11/02/2005 and assigned our Service Request number K0505395. Please verify the following information and notify me of any corrections as soon as possible.

The estimated completion date for this work is: 11/23/2005

Client:

Longview Fibre Company

Project:

Seattle Stormwater

EDD Required:

No

Report To:

Mike Anderson

Longview Fibre Company 5901 East Marginal Way South

Seattle, WA 98124

PO Number: 1299

Tier: 1

Billing Address:

Accounts Payable
Longview Fibre Company

End of Fibre Way

P.O. Box 3000

Longview, WA 98632-0300

Thank you for your business!

		A - Test is A	A - Test is Authorized			H - Test is On Hold			uthorized for Prep Only
			150.1 PH	160.2 TSS	1664 O_G_HEM	180.1 TURB	6010B METALS_T	7421 PB_T	
K0505395-001	Roof Drain	10/31/05 2000	А	Α	A	۸	Α	A	

Test Comments:

Group	Test/Method	Samples	Comments
GenChem	150.1/211	1	rec'd past hold time
Metals	6010B/METALS_T	1	Cu, Zn

C - Test has been Cancelled

January 5, 2006

Dear Mr. Arnaud Girard:

I would also like to report some sample testing I had done at our Longview Fibre Company laboratory. We were trying to optimize the treatment process though the Beckart.

Our laboratory in Longview is non-accredited by the State of Washington for metals analysis.

I received results from samples sent to Longview Fibre Company's laboratory on: November 14, 2005, the results were 0.69ppm for copper.

If you have any questions please call me at (206)762-7170

Sincerely,

Mike Anderson

Environmental Coordinator Longview Fibre Company

Seattle, WA. 98134

Sample site number: A4500 Permit/DA No.: 631-02



Industrial Waste Quarterly Self-Monitoring Report

Mall or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

Company Name: Longview Fibre Company

This form is available at http://dnr.metrokc.gov/wir/indwaste

Please specify year: 2005 QUARTER 3 Sample Site No.: A4500 Permit/DA No.: 631-02
All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

				Y						
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu)			Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested. Signature of Principal Executive or Authorized Agent
										y of law that this document and all attachments were prepared under my dil ordance with a system designed to assure that qualified personnel properly the information submitted. Based on my inquiry of the person or persons wor those persons directly responsible for gathering the information, the dis, to the best of my knowledge and belief, true, accurate, and complete, significant penalties for submitting false information, including the possibility of knowing violations. I further certify that all data requiring a laboratory and by a Washington State Department of Ecology accredited laboratory for Signature of Principal Executive or Authorized Agent
July										orepare ed persor e inform urate, a ncluding requiring
2 ا					19	51				s were in the dailing of the ering the ering the accuration, in all data il data ilogy accuration.
					2 pe.	Total vo	olume disc	harged for July	50,420	attachments o assure that on my inquiry ible for gather and belief, true i false informa certify that all ment of Ecolo
	8/29/05	С	.57ppm	and the same of th				1,843		all atta d to ass ded on n nnsible ge and t jing fals ner certi artment
August										nent and designe ted. Bas thy respo knowledg r submit rs. I furt ss. I furt tate Dep
Auç										of law that this document and all attachments rdance with a system designed to assure that he information submitted. Based on my inquiry in those persons directly responsible for gather is, to the best of my knowledge and belief, truignificant penalties for submitting false informat for knowing violations. I further certify that all it for knowing violations. I further certify that all it by a Washington State Department of Ecolo Signature of Principal Executive or Authorized Agent
						Total volur	ne dischai	rged for August	37,520	of law that this rdance with a re information or those persor is, to the best ignificant pens if or knowing v the by a Washin Signature of Pri
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					Т	otal volume d	lischarged	for September	42,370	I certify to a super or super
_▶	Maximu	ım daily fl	ow from this	quarter: 479	3 gallons.	Date on wh	ich maxin	num daily flow	occurred: 7	<u>/20/05</u>

Due Date: Third Quarter Report is due by October 15 of each year...

Analytical Report

Client:

Longview Fibre Company

Project Name:

Project No.: Matrix:

Seattle Wastewater

Water

Service Request: K0503514

Date Collected: 08/29/05 Date Received: 08/31/05 Date Extracted: 08/31/05

Total Metals Units: ug/L (ppb)

Analyte:

EPA Method:

Copper 200.7

Method Reporting Limit:

10

Date Analyzed:

09/07/05

Sample Name

Lab Code

#1 decanting (Composite sam

K0503514-001

57

Method Blank

K0503514-MB

ΝD

Comments:



September 9, 2005

Service Request No: K0503514

Mike Anderson Longview Fibre Company 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Wastewater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on August 31, 2005. For your reference, these analyses have been assigned our service request number K0503514.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/jeb

Page 1 of _____

cc: Hank Rakoz, Longview Fibre

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the clution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

- Cover Page -INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Company

Project Name:

Project No.:

Seattle Wastewater

Service Request: K0503514

Sample Name:

#1 decanting (Composite sample) Method Blank

Lab Code:

K0503514-001 K0503514-MB

Comments:

Columbia Analytical Services ***	117 South 13th	Ava • Kole		CH									626 10	neo.	F	PAGI	=		. OF	SR			509 OC#_	<u> 351</u>	4_	 _
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REPORT REQUIREMENTS	P.O. #	CE INFORM								alyzed:				~												
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required	[——																-								V Z	
II. Report Dup., MS, MSD as	TURNARO	UND REQ	UIREME	NTS						CARB			DUHE	: Ar	<u> </u>	<u> </u>	NO	HIMV	VESI	OTH	IEN:		(0	HOL	E ONE	<u>:)</u>
required	24 hr.		_48 hr.				·																			
III. Data Validation Report (includes all raw data)	5 Day																									
IV. CLP Deliverable Report		dard (10-15 v de FAX Res	-	days)																						
V. EDD		00170(1103	Oits																							
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Printed Name

Firm

Printed Name

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Printed Name

Columbia Analytical Services Inc. Cooler Receipt and Preservation Form Project/Client Work Order K05 and opened on Cooler received on 1. Were custody seals on outside of coolers? (Y) N Teach side If yes, how many and where? 'Were custody seals intact? N Were signature and date present on the custody seals? Ν Is the shipper's airbill available and filed? If no, record airbill number: 43184341204 N 5. COC# Temperature of cooler(s) upon receipt: (°C) Temperature Blank: (°C) Were samples hand delivered on the same day as collection? N Were custody papers properly filled out (ink, signed, etc.)? Type of packing material present HAW AC Did all bottles arrive in good condition (unbroken)? 8. N 9. Were all bottle labels complete (i.e analysis, preservation, etc.)? Ν 10. Did all bottle labels and tags agree with custody papers? N Were the correct types of bottles used for the tests indicated? Were all of the preserved bottles received at the lab with the appropriate pH? N Were VOA vials checked for absence of air bubbles, and if present, noted below? Did the bottles originate from CAS/K or a branch laboratory? Ν Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection? Was C12/Res negative? Explain any discrepancies: RESOLUTION: Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials
			····			
	1					
				<u> </u>		
					 	<u> </u>
				 	<u> </u>	
		1				

Seattle Water Treatment Sample Log

Date: 5/29/05
Any oil sheen present? None
Any odor present? No
Any noticeable turbidity?
Color: Orange Hnt
Clean water pur 7 9

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200

Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Company

QUARTER 2 Please specify year: 2005

Sample Site No.: A4500 Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

										
Month	Sample Date	Sample Type C (Composite) G (G:ab) BC (Batch)	Copper (Cu)			Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory for each analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.
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April										to certify under penalty of law that this document and all attachments were prepared under my din or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons will manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I aware that there are significant penalties for submitting false information, including the possibility fine and imprisonment for knowledge. I further certify that all data requiring a laboratory for parameter tested.
						Total vo	lume disch	narged for April	41,893	chments ure that ny inquirion or gathe elief, tr inform y that a of Ecolo
	5/19/05	Composite	.753ppm					1,872		I certify under penalty of law that this document and all attachments wor supervision in accordance with a system designed to assure that question supervision in accordance with a system designed to assure that qualter and evaluate the information submitted. Based on my inquiry commander the system, or those persons directly responsible for gatherin information submitted is, to the best of my knowledge and belief, true, aware that there are significant penalties for submitting false information fine and imprisonment for knowing violations. I further certify that all of analysis were analyzed by a Washington State Department of Ecology parameter tested.
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June										I certify under penalty of law that this document and all or supervision in accordance with a system designed to gather and evaluate the information submitted. Based manage the system, or those persons directly responsi information submitted is, to the best of my knowledge a aware that there are significant penalties for submitting fine and imprisonment towwing violations. I further analysis were analyzed by a Washington State Depart parameter tested.
						Total vol	lume disch	narged for June	34,645	l certif or sup gather manag inform aware fine ar ganalys
_▶	Maximu	um daily fl	ow from this	quarter: 322	1 gallon	s. Date on v	which ma	ximum daily flo	w occurred:	4/21/05

Due Date: Second Quarter Report is due by July 15 of each year.

Analytical Report

Client:

Longview Fibre Company

Project Name:

Seattle Water Treatment Plant

Service Request: K0500523

Date Collected: 05/19/05 Date Received: 05/24/05

Project No.: Matrix:

Water

Date Extracted: 05/27/05

Total Metals

Sample Name:

#1 decanting (Composite Sample)

Lab Code:

K0500523-001

Units: ug/L (ppb)

Basis: NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	200.7	20	05/31/05	753	

Comments:



June 13, 2005

Service Request No: K0500523

Mike Anderson Longview Fibre Company 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Water Treatment Plant

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on May 24, 2005. For your reference, these analyses have been assigned our service request number K0500523.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace Project Chemist

EW/jeb

Cc:

Hank Rakoz, Longview Fibre

Page 1 of __



Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

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- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
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- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

- Cover Page INORGANIC ANALYSIS DATA PACKAGE

Client: Project Name: Longview Fibre Company Seattle Water Treatment Plant Service Request: K0500523

Project No.:

Sample Name:

Lab Code:

#1 decanting (Composite Sample)

K0500523-001

Method Blank

K0500523-001

Comments:

Approved By:

Date

Analytical Report

Client:

Longview Fibre Company

Project Name: Project No.:

Seattle Water Treatment Plant

Service Request: K0500523 Date Collected: NA

Date Received: NA

Matrix:

Water

Date Extracted: 05/27/05

Total Metals

Sample Name:

Method Blank

Units: ug/L (ppb)

Basis: NA

Lab Code:

K0500523-MB

Sample Result Analyte MRL Result Notes Analysis Method Date Analyzed Copper 200.7 10 05/31/05 ND

Comments:

	Columbia Analytical Services ^{INC}					Ch	ΙAΙ	IN I	OF	С	US	STC)D	Y								SR	ı#:	K	16C	0523
An	Employee - Owned Company	13	17 South 13	th Ave. • Ke	elso, WA 9	8626 •	(360)	577-72	222 • ((800)	95-72	22x07	• FAX	(360)	636-10	68	F	PAGE	<u> </u>		OF			_co	C #	
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Date/Time

Firm

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Printed Name

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BCOC #1 06/03

RECEIVED BY:

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Columbia Analytical Services Inc. Cooler Receipt and Preservation Form

РC	ES
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1. Were custody seals on outside of coolers? If yes, how many and where? \(\sum \frac{1}{2} \) \(\frac{1}{2} 14. Did the bottles origin	ate from CAS/V	or a branch l	-h				$\widehat{\mathcal{A}}$	N	
1. Were custody seals on outside of coolers? If yes, how many and where? 2 + 101 + 2. Were custody seals intact? 3. Were signature and date present on the custody seals? 4. Is the shipper's airbill available and filed? If no, record airbill number: 17.903-466-01-1000-264-1 y (i) 5. COC# Temperature of cooler(s) upon receipt: (°C) Temperature Blank: (°C) Were samples hand delivered on the same day as collection? 6. Were custody papers properly filled out (ink, signed, etc.)? 7. Type of packing material present form 5 helts, bubble wrap, paper towels 8. Did all bottles arrive in good condition (unbroken)? 9. Were all bottle labels complete (i.e analysis, preservation, etc.)?	12. Were all of the present13. Were VOA vials check	ved bottles recei	ved at the lab	o with the appropriates, and if present, not	•			24 PR	и и и
1. Were custody seals on outside of coolers? If yes, how many and where? \(\sum \frac{1}{2}\) \(\sum \frac{1}\) \(\sum \frac{1}{2}\) \(\sum \frac{1}\) \(\sum \frac{1}{2}\) \(\sum \frac{1}{2}\) \(\s	9. Were all bottle labels10. Did all bottle labels a	complete (i.e ana and tags agree wi	llysis, preservith custody pa	vation, etc.)? apers?				90 Q	N N
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Cooler received on $\frac{5124105}{}$ and opened on $\frac{51241.05}{}$ by	Were custody seals or If yes, how many	outside of cools and where? $\frac{2}{2}$	ers?					<i>∅</i>	N

Water Treatment





Confirmation of Sample Receipt

To:	Mike Anderson	From:	Ed Wallace
Email:	mjanderson@longfibre.com	Email:	EWallace@kelso.caslab.com
Fax:	206-767-2442	Fax:	360-636-1068
Phone:	206-762-7170	Phone:	360-577-7222 x3291

Samples for analysis have been received by Columbia Analytical Services on 05/24/2005 and assigned our Service Request number K0500523. Please verify the following information and notify me of any corrections as soon as possible.

The estimated completion date for this work is: 06/14/2005

Client:

Longview Fibre Company

Project:

Report To:

EDD Required:

No Mike Anderson

Longview Fibre Company 5904 East Marginal Way South

Seattle, WA 98124

PO Number: 1299 OB

Tier: I

Billing Address:

Accounts Payable

Longview Fibre Company End of Fibre Way

P.O. Box 3000

Longview, WA 98632-0300

Thank you for your business!

Seattle Water Treatment Sample Log

Date: 5/23/05
Any oil sheen present? No
Any odor present? /b c
Any noticeable turbidity? No
Color: Orange fint
Clean water p. II. S. 6 4



Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200

Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Company

Please specify year: 2005

QUARTER

1

Sample Site No.: A4500

Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Capper (Cu)			Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gállons)	Total Monthly Flow (gallons)	prepared under my direction ed personnel properly e person or persons who e information, the urate, and complete. I am ncluding the possibility of requiring a laboratory credited laboratory for each a factory of the complete is a possibility of the complete in the complete is a possibility of the complete is a laboratory for each a factory of the complete is a laboratory for each a factory of the complete is a laboratory for each a factory of the complete is a laboratory of
	1/18/05	Composite	.6 ppm					1,131		repared under my dispersional property personnel property person or persons winformation, the rate, and complete. Cluding the possibility aduining a laboratory found aboratory for the following the possibility of the following
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February										I aw that this document and all attachme ance with a system designed to assure the information submitted. Based on my inquivose persons directly responsible for gat, to the best of my knowledge and bellef, inficant penalties for submitting false Information would not be the formal of the by a Washington State Department of Ecological Authorized Agent Signature of Authorized Agent Signature of Authorized Agent
	_					Total volume	discharge	ed for February	23,920	that this with a swith a sperson are best and pena powing v Washing varieties of Proceedings of Procedures of Proc
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March										
		·			·	` Total volu	me discha	rged for March	34,720	I certify und or supervisity gather and manage the information aware that I fine and impanalysis we parameter t
	Maximu	ım daily fl	ow from this	quarter: 287	0 gallons	s. Date on v	which ma	ximum daily flo	w occurred:	<u>3/2/05</u>

Due Date: First Quarter Report is due by April 15 of each year.

Analytical Report

Client: Project Name: Longview Fibre Company

Matrix :

Seattle Water Treatment Plant

Project No.:

NA Water

Service Request: K2500496 Date Collected: 01/18/05 Date Received: 01/20/05

Date Extracted: 02/04/05

Total Metals

Sample Name:

#1 Decanting (Composite Sample)

Lab Code:

K2500496-001

Units: ug/L (ppb)

Basis: NA

Sample Result Analyte **Analysis Method** MRL Date Analyzed Result Notes - 10 6010B 02/07/05 600 Copper

Comments:

April 6, 2005

Dear Mr. Arnaud Girard:

I would also like to report some sample testing I had done at our Longview Fibre Company laboratory. I was trying to optimize the treatment process though the Beckart, and these were taken before I understood I needed to report them.

Our laboratory in Longview is non-accredited by the State of Washington for metals analysis.

I received results from samples sent to Longview Fibre Company's laboratory on: January 31, 2005, they were 0.56ppm for copper.

If you have any questions please call me at (206)762-7170

Sincerely,

Mike Anderson Environmental Coordinator Longview Fibre Company Seattle, WA. 98134

Sample site number: A4500 Permit/DA No.: 631-02



February 10, 2005

Service Request No: K2500496

Mike Anderson Longview Fibre Company 5901 E. Marginal Way S. Seattle, WA 98124

RE: Seattle Water Treatment Plant

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on January 20, 2005. For your reference, these analyses have been assigned our service request number K2500496.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/jeb

Page 1 of

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit

MPN Most Probable Number

MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- . The result is an outlier. See case parrative
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case parrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D. The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

- Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client : Project Name : Longview Fibre Company Seattle Water Treatment Plant

Project No.:

NA

Service Request: K2500496

Sample Name:

#1 Decanting (Composite Sample)

Method Blank

Lab Code:

K2500496-001 K2500496-MB

Comments:

Approved By:

ate: 2

Analytical Report

Client:

Matrix:

Longview Fibre Company

Project Name: Project No.:

NA

Seattle Water Treatment Plant

Water

Service Request: K2500496

Date Collected: NA

Date Received: NA

Date Extracted: 02/04/05

Total Metals

Sample Name: Lab Code:

Method Blank

K2500496-MB

Units: ug/L (ppb)

Basis: NA

Analyte

Analysis Method

MRL

Date Analyzed

Sample Result Result

02/07/05

Notes

Copper

6010B

10

ND

Comments:

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Columbia Analytical Services Inc. Cooler Receipt and Preservation Form

PC	EN

Pro	ject/Client long W	in fil	ne lo.		Work C	order K250	0491	· •		
Cod	oler received on	:/20/05	and ope	ened oni/	10/15	by	Mau	٤		
1.	Were custody seals on ou	tside of coo	lers?						Y	Ń
	If yes, how many and	where?		1						
2.	Were custody seals intact	?		•					Y	Ø
3.	Were signature and date p	resent on th	e custody s	eals?			world		Y	(N)
4.	Is the shipper's airbill ava	ailable and	filed? If no	, record airbill nu	mber: 120	1034661	01/1000344		Y	(N)
5.	COC#							_		
	Temperature of cooler(s) upon rec	eipt: (°C)	<u> </u>	<u> </u>					
	Temperature Blank:	(°C)		2.3	3					
	Were samples hand deliver	red on the s	ame day as	collection?					¥	N
6.	Were custody papers prop	erly filled o	out (ink, sig	ned, etc.)?					Ø	N
7.	Type of packing material	present		gel packs						
8.	Did all bottles arrive in g			v ·					$\langle \mathbf{Y} \rangle$	N
9.	Were all bottle labels com	plete (i.e ar	alysis, pres	servation, etc.)?					(V	N
10.	Did all bottle labels and	tags agree v	vith custody	papers?	•				W	N
11.	Were the correct types (of bottles u	sed for the	tests indicated?	•		•		φ	N
12.	Were all of the preserved	bottles rece	eived at the	lab with the appro	opriate pH?	•	•		φ	N
13.	Were VOA vials checked	l for absence	e of air bub	bles, and if preser	nt, noted belo	w?			Y	—N
14.	Did the bottles originate i	from CAS/k	C or a branc	h laboratory?			•		\odot	N
15.	Are CWA Microbiology	samples r	eceived wit	h >1/2 the 24hr.	hold time re	maining fr	om collection?		Y	N
16.	Was C12/Res negative?								Y	N
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April 6, 2005

Dear Mr. Arnaud Girard:

I would also like to report some sample testing I had done at our Longview Fibre Company laboratory. Our laboratory in Longview is non-accredited by the State of Washington for metals analysis.

I received results from samples sent to Longview Fibre Company's laboratory on: January 31, 2005, they were 0.56ppm for copper.

If you have any questions please call me at (206)762-7170

Sincerely,

Mike Anderson Environmental Coordinator Longview Fibre Company Seattle, WA. 98134

Sample site number: A4500 Permit/DA No.: 631-02

LFCo. Lab Service Memorandum

No. 12019

Date: 31 JAN 2005

Subject: Copper in Seattle Water Treatment Samples

Keywords: Copper, Seattle, Water Treatment

Requested by: Dave Mendenhall Performed by: Colleen Roulette

Source and Description of Sample:

Two samples from Seattle's Water Treatment, dated 1/18/05, were brought to the Project lab for analysis.

Analytical Methods and Procedures:

Copper was run on the Unicam 969 Solaar AA.

Results:

	ppm Copper
Untreated	356.01
Treated	0.56

Lab Book No. 279 Page No. 124



Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200

Seatlle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Company

Please specify year: 2004 **QUARTER** Sample Site No.: A4500 Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

			▼	▼	▼						
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)				Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	r my direction noperly sons who the sons who the sons who solibility of oratory for each for you cach	ایهاا
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		-				Total volum	e discharg	ed for October	36,330	attachment assure that assure that on my inqui ole for gath nd belief, tr false infom certify that a	prized Agent
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	12/13/04	С	Less than .05 ppm					1,252		penalty of law that this docum in accordance with a system luate the information submitt stem, or those persons direc mritted is, to the best of my the er are significant penalties to onment for knowing violation analyzed by a Washington Sied.	Signat
mber										penalty in accordinate to system, ubmitted ere are sonmer analyze	
December										I certify under penalty of law that this do or supervision in accordance with a systather and evaluate the information sulmanage the system, or those persons information submitted is, to the best of aware that there are significant penaltifie fine and imprisonment for knowing violidaysis were analyzed by a Washingth parameter tested.	
						otal volume	discharged	d for December	25,770	I certif or sup gather manag inform aware fine ar anatys	
▶	Maxim	ım daily fl	ow from this c	uarter: 2,48	37 gallon	s. Date on	which ma	aximum daily fl	ow occurred	: <u>10/6/04</u>	

Due Date: Fourth Quarter Report Is due by Jan 15 of each year.

Analytical Report

Client:

Longview Fibre Company

Project Name: Project No.:

Seattle Water Treatm

Matrix:

NA Water Service Request: K2409894

Date Collected: 12/13/04

Date Received: 12/15/04

Date Extracted: NA

Total Metals

Sample Name:

#1 decanting (composite sample)

Lab Code:

K2409894-001

Units: ug/L (ppb)

Basis: NA

Analyte

Analysis Method

MRL

Date Analyzed

Sample Result

Result

Copper

50

12/19/04

Notes

6010B

ND

less than

Comments:



December 21, 2004

Service Request No: K2409894

Mike Anderson Longview Fibre Company 5901 E. Marginal Way S. Seattle, WA 98124

RE: Seattle Water Treatment Plant

Dear Mike:

Enclosed are the results of the rush sample(s) submitted to our laboratory on December 15, 2004. For your reference, these analyses have been assigned our service request number K2409894.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Ed Waller

Columbia Analytical Services, Inc.

Ed Wallace Project Chemist

EW/jeb

Page 1 of



Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- The result is an outlier. See case narrative
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B. The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B. The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C. The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D. The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRE/MDL.
- The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic tingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

· 0000**3**

- Cover Page -INORGANIC ANALYSIS DATA PACKAGE

Client: Project Name: Longview Fibre Company Seattle Water Treatm

Project No.:

NΑ

Service Request: K2409894

Sample Name:

Lab Code:

#1 decanting (composite sample) Method Blank

K2409894-001

K2409894-MB

Comments:

Date:

Analytical Report

Client:

Matrix:

Longview Fibre Company

Project Name:

Seattle Water Treatm

Project No.:

NA

Water

Service Request: K2409894

Date Collected: NA Date Received: NA

Date Extracted: NA

Total Metals

Sample Name:

Method Blank

Lab Code:

K2409894-MB

Units: ug/L (ppb)

Basis: NA

Analyte

Analysis Method

MRL

Date Analyzed

Sample Result

Result

6010B

50

12/19/04

Copper

Notes

ND

Comments:

Columbia Analytical Services ^{NC.}				AIN									P	AGE	:		OF	SR	#:	(c)	<u> 24C</u>) C/K(74_
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12.	Were all of the preserved	·			pH?			Ø	N
13.	Were VOA vials checked				·			<u>.</u> Y	 N-
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15.	Are CWA Microbiology			-	me remaining fr	om collection?		Y	N
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300 Fibre Way Longview, WA 98632 Phona: 360-575-5570 Fax: 360-575-6110

Longview Fibre Co.



To:	Mike Anderson	From:	DN Mendenhall	
Fax:	206-767-2442	Date:	December 14, 2004	
Phone	e:	Pages	1 2	
Re:	Sample results	GG;		
□ Urg	jent x For Review	☐ Please Comment	☐ Please Reply	☐ Please Recycle
•Com	ments:			
Mike-	As you can see, there is a	a big difference between the	e treated and untreated	d samples.
Dave				

LFCo. Lab Service Memorandum

No. 11996

Date: 14 DEC 2004

Subject:

Copper in Seattle Water Treatment Samples

Keywords: Copper, Seattle, Water Treatment

Requested by: Dave Mendenhall

Performed by:

Colleen Roulette

Source and Description of Sample:

Two samples from Seattle's Water Treatment, received on 11/22/04, were brought to the Project lab for analysis.

Analytical Methods and Procedures:

Copper was run on the Unicam 969 Solaar AA.

Results:

	ррт Соррег
Treated	0.03
Untreated	26.08

mg/1 = ppm

Lab Book No. 279 Page No. 120



Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200

Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

Company Name: Longview Fibre Company

This form is available at http://dnr.metrokc.gov/wir/indwaste

Please specify year: 2004

QUARTER

3

Sample Site No.: A4500

Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

										
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)				Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	under my direction inel property r persons who ion, the complete. I am he possibility of a laboratory thoratory for each
July										I certify under penalty of law that this document and all attachments were prepared under my director supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for eapparameter tested. Signature of Principal Executive or Authorized Agent
Ť						Total vo	olume disc	harged for July	29,460	attachments were nattachments were nasure that qualificon my inquiry of the ble for gathering that belief, true, acc false information, is certify that all data nent of Ecology accorded Agent
ıst	8/28/04	С	.933ppm							law that this document and all attachmer ance with a system designed to assure the information submitted. Based on my inquose persons directly responsible for gath, to the best of my knowledge and belief, inficant penalties for submitting false infort Knowing violations. I further certify that by a Washington State Department of Ec.
August						Total volum	ne dischar	ged for August	26,180	this docume the system do ion submittee rsons directly est of my kno enalties for so no violations, shington Stat
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September								·		I certify under penalty of faw that this document and all a got supervision in accordance with a system designed to got supervision in accordance with a system designed to got supervision in accordance with a system designed to manage the system, or those persons directly responsibility information submitted is, to the best of my knowledge ar aware that there are significant penalties for submitting fine and imprisonment for knowing violations. I further canalysis were analyzed by a Washington State Departm parameter tested.
		<u> </u>			T	otal volume d	lischarged	for September	32,180	l certify or supogather managinform; aware fine an analysis parame

Analytical Report

Client: Project Name: Longview Fibre Company Seattle Water Treatment Plant

Project No.: Matrix:

NA Water Service Request: K2406816

Date Collected: 08/28/04 Date Received: 09/08/04 Date Extracted: 09/09/04

Total Metals Units: ug/L (ppb)

Analyte:

EPA Method:

Copper

Method Reporting Limit:

6010B 20

Date Analyzed:

09/10/04

Sample Name

Lab Code

#1 Decanting Method Blank K2406816-001 K2406816-MB 933 ND

Comments:



September 15, 2004

Service Request No: K2406816

Mike Anderson Longview Fibre Company End of Fibre Way P.O. Box 639 Longview, WA 98632

RE: Seattle Water Treatment Plant

Dear Mike:

Enclosed are the results of the rush sample(s) submitted to our laboratory on September 8, 2004. For your reference, these analyses have been assigned our service request number K2406816.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/di

Page 1 of C

Inorganic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B. The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic tingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic tingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Columbia Analytical				СН	ΙΑΙ	N ()F	C	US	TC)D	Y								SR	#:	<u>K2</u>	401	031	6
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I. Routine Report: Method	P.O. # Bill To: _			- 1	Tota	l Metal	s: Al	As	Sb B	a Be	ВСа	a Cd	Со	Cr Cı	ι Fe	Pb	Mg M	n Mo	Ni c	K Ag	Na	Se S	ir TI	Sn V	Zn Hg
Blank, Surrogate, as					Dissolv	ed Meta	ıls: Al	As	Sb E	a Be	ВС	a Cd	Со	Cr C	u Fe	Pb	Mg N	In Mo	o Ni	K Ag) Na	Se S	Sr TI	Sn V	Zn Hg
required		'INDI	CATE	STAT	E HY	DRO	ARB	ON PI	ROCE	DURE	: Al	< C/	A WI	NO	ATHW	VEST	ОТН	ER:		_(CIA	CLEO	NE)			
II. Report Dup., MS, MSD as required		UND REQU		NTS	SPEC	IAL IN	STR	JCTIC	ONS/C	ОММ	ENTS	i:													
III. Data Validation Report	24 hr 5 Day		48 hr.														٠								
(includes all raw data)		y dard (10-15 w	orkina d	lavs)																					
IV. CLP Deliverable Report		de FAX Resu	•	,5,	-/ 																				
V. EDD	9/15/ Red	ेप uested Repor	n Date			. •																		•	
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RCOC #1 06/03

Columbia Analytical Services Inc. Cooler Receipt and Preservation Form	<u></u>	
Project/Client LV FIBINE Work Order K240 U810		
Project/Client $LV FIBINE$ Work Order K240 $UBIU$ Cooler received on $9/8/07$ and opened on $9/8/07$ by		
1. Were custody seals on outside of coolers?	\odot	N
If yes, how many and where?	_	
2. Were custody seals intact?	$\mathscr{D}_{\mathcal{I}}$	N
3. Were signature and date present on the custody seals?	$\langle y \rangle$	N
4. Is the shipper's airbill available and filed? If no, record airbill number: 12 903 4660/1000 724 9	Y	(M)
5. COC#		
Temperature of cooler(s) upon receipt: (°C)		
Temperature Blank: (°C)		
Were samples hand delivered on the same day as collection?	¥	N
6. Were custody papers properly filled out (ink, signed, etc.)?	\mathbf{A}_{j}	(\hat{N})
7. Type of packing material present BURING MEN		_
8. Did all bottles arrive in good condition (unbroken)?	\mathfrak{Q}	N
9. Were all bottle labels complete (i.e analysis, preservation, etc.)?	\wp	N
10. Did all bottle labels and tags agree with custody papers?	(Y)	N
11. Were the correct types of bottles used for the tests indicated?	\bigcirc	N
12. Were all of the preserved bottles received at the lab with the appropriate pH?	Y	Ø
13. Were VOA vials checked for absence of air bubbles, and if present, noted below?	¥	N
14. Did the bottles originate from CAS/K or a branch laboratory?	8	N
15. Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?	Y	N
16. Was C12/Res negative?	Y	N
Explain any discrepancies: NO TESTS US RYO		

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials
AZ DEUDDUG	HNUZ	1 mi	X40023	Sap		110
/					_	0

COLPORA COLOR TURE COCOLEGE

300 Fibre Way Longview, WA 98632 Fax: 350-575-5110





Dave

To:	Mike Anderson	From:	D N Mendenhall					
Fax	206-767-2442	Date:	September 3, 2004					
Phone		Pages	2					
Re	Sample results	. cc:	:					
□ Urg	gent X For Review	☐ Please Comment	☐ Please Reply	🗆 Please Rocycle				
•Com	ments:							
Mike-	Here are the sample resu	ults that you requested.						

LFCo. Lab Service Memorandum

No. 11937

Date: 03 SEP 2004

Subject: Copper

Copper in Scattle Water Treatment Sample

Keywords: Copper, Seattle Water Treatment

Requested by: Dave Mendenhall

Performed by:

Colleen Roulette

Source and Description of Sample:

One sample from Seattle's Water Treatment, labeled "Decanting sample with 4 minutes V-100, was brought to the Project lab for analysis on 8/30/04.

Analytical Methods and Procedures:

Copper was run on the Unicam 969 Solaar AA.

Results:

% Solids	0.92
	45000 778
	ppm Copper
Just Filtered*	. 0.004
Digested and then Filtered*	0.935

* I filtered part of the sample, acidified it and ran it on the AA. Then I Digested part of the sample on the Hotplate and then filtered it and ran it on the AA. I was curious as to whether there was any copper in the stuff we were filtering out, although there was not much solids in this sample.

JCP.

Lab Book No. 279 Page No. 115



Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Sulte 200

Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wir/indwaste

Company Name: Longview Fibre Company

Please specify year: 2004

QUARTER

Sample Site No.: A4500

Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

			▼	▼	▼						
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu)					Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	I certify under penalty of law that this document and all attachments were prepared under my direction of supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting takes information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each	-7-0 4 Date
								·		d under monnel proportion, the posses attout the comple of a labora laborator	7
April										prepared und ed personnel e information, urate, and cor noluding the prequiring a late	
Ā										y of law that this document and all attachments were profance with a system designed to assure that qualified the information submitted. Based on my inquiry of the or those persons directly responsible for gathering the d is, to the best of my knowledge and belief, true, accur significant penalties for submitting false information, into how to wow you should not be a first all data rect of by a Washington State Department of Ecology accreted by a Washington State Department of Ecology accreted.	,
						Total vo	lume disch	narged for April	20240	attachments on my inquin ble for gathe that had belief, tru false informa certify that all	ad Agent
										and all attachments igned to assure that of Based on my inquiry esponsible for gatheridadge and belief, true forge and belief, true forms buritting fasts information further certify that all bepartment of Ecolo	Signature of Principal Executive or Authorized Agen
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	6/18/04	С	,055ppry					3500		y of law cordance the info or thos or thos d is, to significate the key by each by eac	Sign
June			·							r penatt n in acc valuate system, ubmitte iere are isonme	sted
بن خ					·				•	I certify under penalty of law that this document and all attachments vor supervision in accordance with a system designed to assure that gather and evaluate the information submitted. Based on my inquiry manage the system, or those persons directly responsible for gatherical information submitted is, to the best of my knowledge and belief, true aware that there are significant penalties for submitting false informat fine and imprisonment for knowledge. I further certify that all analysis were analyzed by a Washington State Department of Ecological analysis were analyzed by a Washington State Department of Ecological analysis were analyzed by a Washington State Department of Ecological analysis were analyzed by a Washington State Department of Ecological and State	parameter tested.
				<u> </u>				arged for June	32520	l. <u></u>	para
	Maximu	ım daily fl	ow from this	quarter: <u>46 o</u>	o gallons.	Date on wh	ich maxir	num daily flow	occurred:	6-8-04	

Due Date: Second Quarter Report is due by July 15 of each year.

Analytical Report

Client:

Longview Fibre Company

Project:

Sample Matrix: Water

Seattle Water Treatment Plant

Service Request: K2404627 Date Collected: 6/18/04

Date Received: 6/23/04 Date Extracted: 7/1/04 Date Analyzed: 7/6/04

Total Copper EPA Method 6010B Units: µg/L (ppb)

Sample Name	Lab Code	MRL	Result
#1 decanting (#1 Composite Sample)	K2404627-001	. 50	55
Method Blank	K2404627-MB	50	ND

Approved By: 1AMRL/102594

04627iep.jc1 - Sample 7/6/04

00004

Page No.:



July 7, 2004

Service Request No: K2404627

Mike Anderson Longview Fibre Company 5901 E. Marginal Way S. Seattle, WA 98124

RE: Seattle Water Treatment Plant

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on June 23, 2004. For your reference, these analyses have been assigned our service request number K2404627.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

allace

Ed Wallace

Project Chemist

EW/dj

Page 1 of

Inorganic Data Qualifiers

- . The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- . The result is an outlier. See case narrative
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L . The chromatographic fingerprint of the sample resembles a petroleum product, but the clution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product cluting in approximately the correct carbon range, but the clution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Columbia Analytical Services NC				CHAIN OF CUSTODY										SR#: 12404627				4627						
An Employee - Owned Company , 13	17 South 13	iih Ave. • Ke	lso, WA 9	98626 • (360) 577-7222 • (800) 695-7222×07 • FAX (360) 636-1068 PAGEO										_ OF COC #										
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II. Report Dup., MS, MSD as required	1	ROUND RE		ENTS	SPE	CIAL;II	NSTR	UCTI	ONS/C	OMM	ENTS	S :												
III. Data Validation Report	1	hr Day	48 hr			•																		
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Columbia Analytical Services Inc. Cooler Receipt and Preservation Form

PC_	13

Project/Client	18PE		w	ork Order K24	0_460	27					
Cooler received on	0/23/04	and ope	ned on $\frac{c/23}{c}$	Уby_	No.						
1 Were custody seals	on outside of coo	lers?			, -	UPS	Ø	N			
If yes, how man	ny and where?		15			/					
2. Were custody seals			•								
3. Were signature and date present on the custody seals?											
4. Is the shipper's airbill available and filed? If no, record airbill number: 12903 466 031004 38 08											
5. COC#											
Temperature of c	ooler(s) upon rec	eipt:	14.7								
Temperature Blai	nk:		14:7 N/F	<u> </u>							
Were samples hand	delivered on the s	ame day as	collection?				Y	N			
6. Were custody paper	s properly filled o	ut (ink, sigr	ned, etc.)?				Ø	N			
7. Type of packing ma	terial present	Burn	P. GERPARK	<u>'</u> 5							
8. Did all bottles arri		v					Ø	N			
9. Were all bottle labe	ls complete (i.e ar	alysis, pres	ervation, etc.)?				B	N			
10. Did all bottle label	s and tags agree v	vith custody	papers?				Œ	N			
11. Were the correct t	types of bottles u	sed for the	tests indicated?				Ø	N			
12. Were all of the pres	served bottles rece	eived at the	lab with the appropriate	pH?			Y	Ŋ			
13. Were VOA vials of	necked for absence	e of air bubl	oles, and if present, noted	i below?			Y	N			
14. Did the bottles orig	inate from CAS/k	or a branch	h laboratory?				80	N			
15. Are CWA Microb	iology samples re	eceived with	h >1/2 the 24hr, hold ti	ne remaining fr	om collection?		¥	N -			
16. Was C12/Res nega	tive?						4	-N -			
Explain any discrepan	cies: <i>1CE</i>	NOT	FRONT :								
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ACKNOWLEDGMENT OF RECEIPT OF SAMPLES

TO:

Mike Anderson Longview Fibre Company 5901 E. Marginal Way S. Seattle, WA 98124

FROM:

Ed Wallace, Project Chemist Columbia Analytical Services, Inc.

This is to inform you that the samples received for testing have been assigned CAS Service Request number K2404627. Please verify information and notify me of any corrections.

A copy of our work order is attached. If you have any questions regarding the status of this work, please call me at (360) 577-7222.

Thank you for your business.

Number of pages - ____ (including cover sheet).

Columbia Analytical Services, Inc. 1317 South 13th Avenue P.O. Box 479 Kelso, WA 98626 (360) 577-7222 (360) 636-1068 - FAX

^{*} During the next few months, you may notice format changes in some of the documents you receive from CAS. However, these documents should contain the same information you are accustomed to receiving.

Columbia Analytical Services -- Kelso INTERNAL LOGIR SUMMARY REPORT (ILO1) 25-JUN-04 12:53

	Service Req. Client No. Client Name	No.	K2404627(1) 125855 Löngyiew Fibra (Company 1981) 1981			Se	sttle L	later	Treatment Plant	Bottles: 1 - 1 L Red	
	B{li lo:		Longview Fibre Company Attn: Accounts Payable 5901 E. Harginal Way S. Seattle, WA 98124		Report lo:	59	ngview ke Ando 01 E. M sttle,	largii	e Company (1) }		
	P.D. No. Logged In By ISR Num		1456 OB (Longview) FADAIR		Site ID Project Chemis	t Eq	Wellar	e (())	\$1000A\$497\$	·	
	COC Received Samples Submi	tted	52-1NM-04							Storage: SAN 65	
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	K2404627-001 Comments:	#1 0	decanting (#1 Composite Sample)	WATER	18:30 18-Jun-04	08-JUL	-04	1			
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FAX	Date: 7/6/04
	Pages: (Including cover sheet)
TO: MIKE ANDERSON	From: ED WALLACE Columbia Analytical Services
Phone:	1317 South 13th Ave.
Fax: 206-767-2447	P.O. Box 479
1 dx	Kelso, WA 98626
	Phone: (360) 577-7222
CC:	Fax: (360) 636-1068
Phone:	
Fax:	
RESULTS FOR S	AMPLES SUBMITTED:
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SERVICE REQUEST:	K2404627
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IMPORTANT NOTE: The document accompanying this transmission may contained intended only for the use of the individual or entity named above. If you are not the irectpient, you are hereby notified that any disclosure, copying, distribution, or use of PROHIBITED. If you have received this transmission in error, please immediately typus comperation and assistance.	nlanded recipions, or the person responsible for delivering it to the intended fany of the Information contained in this transmission is strictly

Analytical Report

Cllent:

Longview Fibre Company

Project:

Seattle Water Treatment Plant

Sample Matrix: Water

Service Request: K2404627

Date Collected: 6/18/04
Date Received: 6/23/04

Date Extracted: 7/1/04 Date Analyzed: 7/6/04

Total Copper EPA Method 6010B Units: µg/L (ppb)

Sample Name	Lab Code	MRL	Result
#1 decanting (#1 Composite-Sample)	K2404627-001	50	55
Mcthod Blank	K2404627-MB	50	ND

Approved By: ______ Date: Thoby

04627kp.jci - 30mpio 7/6/04

Page Na.



FAX	Date: 7/6/04
	Pages: (including cover sheet)
TO: MIKE ANDERSON	From: ED WALLACE Columbia Analytical Services
Phone:	1317 South 13th Ave.
Fax: 206-767-2447	P.O. Box 479
	Kelso, WA 98626
	Phone: (360) 577-7222
CC:	Fax: (360) 636-1068
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I an.	
RESULTS FOR 5	AMPLES SUBMITTED:
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SERVICE REQUEST:	K2404627
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Analytical Report

Client:

Longview Fibre Company

Project:

Seattle Water Treatment Plant

Sample Matrix: Water

ibre Company

Service Request: K2404627

Date Collected: 6/18/04
Date Received: 6/23/04

Date Extracted: 7/1/04
Date Analyzed: 7/6/04

Total Copper EPA Method 6010B Units: µg/L (ppb)

Sample Name	Lab Code	MRL	Result
#1 decanting (#1 Composite Sample)	K2404627-001	50	55
Method Blank	K2404627-MB	50	ND

Approved By: ______ Date: Thoby

04627lep.je1 - Samalo 7/6/04

Page No.

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200

Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

Company Name: Longview Fibre Company

This form is available at http://dnr.metrokc.gov/wir/indwaste

Please specify year: 20

QUARTER

1

Sample Site No.: A4500

Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

			<u> </u>	<u> </u>	<u> </u>								
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu))		Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory for each parameter tested. Signature of Pindapa Executive or Authorized Agent			
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	Total volume discharged for March 175/2												
->	Maximu	ım daily f	low from this	quarter32 o c	gallons.	Date on wh	ich maxi	mum daily flow	occurred: ,	1-7-04			

Due Date: First Quarter Report is due by April 15 of each year.

Analytical Report

Client: Project Name: Longview Fibre Company

Seattle Water Treatment Plant

Project No.: Matrix:

NA Water Service Request: K2400675

Date Collected: 01/28/04 Date Received: 02/03/04 Date Extracted: 02/06/04

Total Metals Units: ug/L (ppb)

Analyte:

Copper

EPA Method:

6010B

Method Reporting Limit:

10

Date Analyzed:

02/12/04

Sample Name

Lab Code

#1 Decanting #2 Decanting Method Blank K2400675-001 K2400675-002

K2400675-MB

Comments:

Analytical Report

Client : Project Name : Longview Fibre Company Seattle Water Treatment Plant

Project No.:

Matrix:

NA Water Service Request: K2401230

Date Collected: 02/18/04 Date Received: 02/20/04 Date Extracted: 02/26/04

Total Metals Units: ug/L (ppb)

Analyte:

EPA Method:

Copper 6010B 10

Method Reporting Limit:

g Daint:

Date Analyzed:

03/01/04

Sample Name

Lab Code

#1 Decanting #2 Decanting Method Blank K2401230-001 K2401230-002 K2401230-MB 2970 = 2,97 ppm 3120 = 3,12 ppm ND

Comments:



March 3, 2004

Service Request No: K2401230

Mike Anderson Longview Fibre Company 5901 E. Marginal Way S. Seattle, WA 98124

RE: Seattle Water Treatment Plant

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on February 20, 2004. For your reference, these analyses have been assigned our service request number K2401230.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/jeb

Page 1 of

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic tingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y

 The chromatographic fingerprint of the sample resembles a petroleum product cluting in approximately the correct carbon range, but the clution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

- Cover Page INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Company

Project Name:

Seattle Water Treatment Plant

Project No. :

NA

Service Request: K2401230

Sample Name:

#1 Decanting

#2 Decanting Method Blank Lab Code:

K2401230-001

K2401230-002

K2401230-MB

Comments:

Annroved By:

Date:

Analytical Report

Client:

Longview Fibre Company

Project Name: Project No.:

Seattle Water Treatment Plant

Matrix:

NA Water Service Request: K2401230

Date Collected: 02/18/04 Date Received: 02/20/04 Date Extracted: 02/26/04

Total Metals Units: ug/L (ppb)

Analyte:

Copper

EPA Method:

6010B 10

Method Reporting Limit:

Date Analyzed:

03/01/04

Sample Name

Lab Code

#1 Decanting #2 Decanting Method Blank K2401230-001 K2401230-002 K2401230-MB 2970 3120

ND

Comments:

Columbia Analytical	US	STODY										SR#: KZ401230												
	17, South 13	h Ave. • Ke	lso, WA 9	8626 •	(360) 577-7	222 •	(800) (395-722	22x07	• FAX	(360)	636-10	68	P	AGE			OF			_co	C #		
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REPORT REQUIREMENTS I. Routine Report: Method Blank, Surrogate, as required II. Report Dup., MS, MSD as	I. Routine Report: Method Blank, Surrogate, as P.O. # Bill To: Dissolved Metals: A							Sb B Sb E	a Be la Be	B C	a Cd	Co	Cr Ci	J Fe	Pb I	Mg ₩	In Mo	NI o	K A	g Na		Sr Ti		n Hg
required		IOUND RE		ENTS	SPECIAL	INSTR	UCTI	ONS/C	COMM	ENTS	: :													}
III. Data Validation Report	24 ¹ 5 D		48 hr.																					
(includes all raw data)																								
IV. CLP Deliverable Report Provide FAX Results																								
V. EDD																								
Requested Report Date																								
RELINQUISHED BY: 2-18-04 7:10; IM Mask					ECENED BY: RELINQUISHED E Z / 20/64 / CCC Date/Time Date/ Signature Date/												RECEIVED BY:							
Mile Huxelf TV Lucy	Signature Date/Ime Firm Fir					nne CAS					ame			ite/Tim	1 8		Signature Printed Name			me	Date/Time			

Columbia Analytical Services Inc. Cooler Receipt and Preservation Form

Pro	ject/Client <u>LV Fi</u>	bre.	Seat	tew	ork Order K24	0_13	30		
Co	oler received on	20/0	$\underline{\mathcal{L}}$ and ope	ened on 2/20/	04, by_		<u>u.</u>		
1.	Were custody seals on ou			2F.		_		(Y)	N
2.	Were seals intact and sign	nature & dat	e correct?					(Y)	N
3.	Is the shipper's airbill av	ailable and t	filed? If no	, record airbill number.	OS 1290	346603	3	Y	(N)
4.	COC#					101	14 25	32	
	Temperature of cooler(s) Temperature Blank:) upon receip	ot:	<u> 5.9</u> <u> 3-2</u>					
5.	Were custody papers proj	perly filled o	ut (ink, sig	ned, etc.)				$\left(Y\right)$	N
6.	Type of packing material	present		All Itt					
7.	Did all bottles arrive in go	ood conditio	n (unbroke	n)?				$\langle \hat{\mathbf{Y}} \rangle$	N
8.	Were all bottle labels con	nplete (i.e ar	alysis, pres	servation, etc.)?				(4)	N
9.	Did all bottle labels and t	ags agree wi	th custody	papers?					N
10.	Were the correct types of	f bottles used	for the tes	ts indicated?				(2)	N
11.	Were all of the preserved	bottles rece	ived at the	lab with the appropriate	pH?			$\left(\begin{array}{c} Y \end{array} \right)$	N
12.	Were VOA vials checked	d for absence	e of air bub	bles, and if present, note	d below?			7	N
13.	Did the bottles originate	from CAS/k	or a branc	h laboratory?		•		0	N
14.	Are CWA Microbiology	samples rec	eived with	>1/2 the 24hr. hold time	remaining from	collection?		<u>V</u>	-N-
15.	Was C12/Res negative?							¥=	_N
Exp	plain any discrepancies:_							··	
									
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					· · · · · · · · · · · · · · · · · · ·				
									
RE	SOLUTION:								
San	pples that required prese	rvation or r	eceived or	ut of temperature:					
	Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials		
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-		<u> </u>							

ACKNOWLEDGMENT OF RECEIPT OF SAMPLES

TO:

Mike Anderson Longview Fibre Company 5901 E. Marginal Way S. Seattle, WA 98124

FROM:

Ed Wallace, Project Chemist Columbia Analytical Services, Inc.

This is to inform you that the samples received for testing have been assigned CAS Service Request number K2401230. Please verify information and notify me of any corrections.

A copy of our work order is attached. If you have any questions regarding the status of this work, please call me at (360) 577-7222.

Thank you for your business.

Number of pages - _____ (including cover sheet).

Columbia Analytical Services, Inc. 1317 South 13th Avenue P.O. Box 479 Kelso, WA 98626 (360) 577-7222 (360) 636-1068 - FAX

^{*} During the next few months, you may notice format changes in some of the documents you receive from CAS. However, these documents should contain the same information you are accustomed to receiving.

Columbia Analytical Services -- Kelso INTERNAL LOGIN SUMMARY REPORT (il01) 23-FEB-04 11:05

Service Req. No Client No. Client Name	2. X2401230 125855 Engyview Fibre Company		ect No. ject Name	Smattle Water	Treatment Plant	Bottles: 2 - 500 ml Red
Bill To:	Longview Fibre Company Attn: Accounts Payable P.O. Box 3000 Longview, WA 98632-0300		ort to:	Longview Elbr Wike Anderson 5901 E. Margi Seattle, WA	e Company nal Way S. 98124	
P.O. No. Logged In By ISR Num	1456 OB APAYNTER	Sit: Pro	e ID ject Chemist	Ed Val lace		######################################
COC Received Samples Submitt	ed 2D-FEB-04					Storage: HERK D3
CAS Samp No. C	client Sample No.	Hetrix Co	ollected Du	eDate CU/ICP	D(GEST	
K2401230-001 # K2401230:002:/#	n Decenting 12:Decenting	WATER 18:45 WATER 118:55	18-FEB-04 05- 18-FEB-04 05-	MAR-04 MAR-04		ompressioner en en en en en en en en en en en en en
125855	ce: Hank Rakoz.					
Samples Found T	o Be Nazardous: NORE ALL *SOM	E_	Page	1 of 1		Reviewed By:



February 13, 2004

Service Request No: K2400675

Mike Anderson Longview Fibre Company 5901 E. Marginal Way S. Seattle, WA 98124

RE: Seattle Water Treatment Plant

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on February 3, 2004. For your reference, these analyses have been assigned our service request number K2400675.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/jeb

Page 1 of

cc:

Hank Rakoz, Longview Fibre Dave Mendenhall, Longview Fibre

Dave Mendelman, Dongview 11616

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B. The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- . The result is an outlier. See case narrative,
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- F The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic tingerprint of the sample matches the clution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the clution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic tingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product elitting in approximately the correct carbon range, but the elittion pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

- Cover Page INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Company Seattle Water Treatment Plant

Project Name : Project No. :

NA.

Service Request: K2400675

Sample Name:

#1 Decanting #2 Decanting Method Blank Lab Code:

K2400675-001 K2400675-002 K2400675-MB

Comments:

Approved By:

Dat

2/13/04

Analytical Report

Client: Project Name: Longview Fibre Company Seattle Water Treatment Plant Service Request: K2400675 Date Collected: 01/28/04

Project No.: Matrix:

Water

Date Received: 02/03/04 Date Extracted: 02/06/04

Total Metals Units: ug/L (ppb)

Analyte:

Copper

EPA Method: Method Reporting Limit: 6010B 10

Date Analyzed:

02/12/04

Sample Name

Lab Code

#1 Decanting #2 Decanting Method Blank K2400675-001 K2400675-002 K2400675-MB 2390 2420 ND

Comments:

Columbia Analytical				CHAIN OF CUSTODY												SR#: K2400675									
Services NC.	13	317 South 13	8th Ave. • Ke	elso, WA 9	98626	(360)	577-72	22 • ((800) 6	95.72	22x07	• FAX	(360)	636-10	68	F	AGE		Ĺ	OF		L	CO	C #	
PROJECT NUMBER PROJECT NUMBER	Water	- Treaty	ment 1	lan	<u> </u>		7		7		1	7		7	8151A[]	7	7	7	7	/ -vi /	/	7098/	7	//	77
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PHONE (206) 762-7	170	(at	16	7.24	12 Samon		Semivolatile Ses Callies	Volatile Oc. 9270		O Fuel Finesel O Delow)	Oil & Great Screen	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Chloropher 81.4	PAHS CHIES BISIN		Cyanido Cyanid		MH3 800 150, 100 100 100 100 100 100 100 100 100 1						
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REPORT REQUIREM	ENTS	1	DICE INFO		V	Çircle	which	metals	are to	be ana	elyzed:			L					1		L'				
I. Routine Report: I		1 -				То	tal Meta	ils: Al	As	Sb B	a Be	в Са	Cd	Co (or ou	Fe	Pb N	lg Mi	n Mo	NI I	K Ag	Na	Se S	, T) \$	Sn V Zn Hg
Blank, Surrogate required	. as					Dissol	ved Met	als: Al	As	Sb B	la Be	ВС	a Cd	Со	cy c	Fe	Pb N	/lg M	n Mo	Ni	K Ag	Na	Se S	r TI	Sn V Zn Hg
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RCOC #1 06/03

Columbia Analytical Services Inc. Cooler Receipt and Preservation Form

Project/Client LV	bre			Work Order K24	0 0675			
Cooler received on	13/04	and ope	ened on <u>115/14</u>	by	Al	ull		
1. Were custody seals o		lers?					Y	(N)
If yes, how many								
2. Were seals intact and	signature & da	e correct?		in the die N	130119061		Y	(N)
3 Is the shipper's airbi	ll available and	filed? If no	, record airbill number:	1791946619	10092274		Y	N
4. COC#								
Temperature of cool	er(s) upon recei	ot:	2.2					
Temperature Blank:			<u> 56 </u>					
5. Were custody papers	properly filled of	out (ink, sigi	ned, etc.)?				Y	(N)
6. Type of packing mate	erial present <u>4</u>	el 10						
7. Did all bottles arrive	in good condition	ı on (unbroker	п)?				D	N
8. Were all bottle labels	complete (i.e ai	nalysis, pres	ervation, etc.)?				$\delta\!$	N_AH
9. Did all bottle labels a	nd tags agree w	ith custody p	papers?				_ Y	-{K)
10. Were the correct type	es of bottles use	d for the test	ts indicated?				\bigcirc	N
11. Were all of the prese	rved bottles rece	eived at the	lab with the appropriate	e pH?			Y	(N)
12. Were VOA vials che	cked for absenc	e of air bubb	oles, and if present, not	ted below?			_Y	N
13. Did the bottles origin	ate from CAS/I	C or a branch	h laboratory?				(Y)	N
14. Are CWA Microbiol	ogy samples rec	eived with >	>1/2 the 24hr, hold time	e remaining from	collection?		.Y	N-
15. Was C12/Res negative	/		. 1	· ·			_¥	N
Explain any discrepanci	es: Aft ft	RAL	d keid	15/17 M	Preds-	Life	Loff	
#1,42.								
	relect FI		ours #1 decar	Jug. 15I	DR RECE	_labo	led	
# 2. Cl. Jay 5 #	account in	9			· · · · · · · · · · · · · · · · · · ·			
	<u> </u>							
RESOLUTION:								
Samples that required pr	eservation or r	eceived ou	t of temperature:					
3								
0		l		5 7	Rec'd out of			
Sample ID	Reagent	Volume	Lot Number V 4002分	Bottle Type	Temperature	Initials /		
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#2		 		- 				
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				-				
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ACKNOWLEDGMENT OF RECEIPT OF SAMPLES

TO:

Mike Anderson Longview Fibre Company 5901 E. Marginal Way S. Seattle, WA 98124

FROM:

Ed Wallace, Project Chemist Columbia Analytical Services, Inc.

This is to inform you that the samples received for testing have been assigned CAS Service Request number K2400675. Please verify information and notify me of any corrections.

A copy of our work order is attached. If you have any questions regarding the status of this work, please call me at (360) 577-7222.

Thank you for your business.

Number of pages —— (including cover sheet).

Columbia Analytical Services, Inc. 1317 South 13th Avenue P.O. Box 479 Kelso, WA 98626 (360) 577-7222 (360) 636-1068 - FAX

^{*} During the next few months, you may notice format changes in some of the documents you receive from CAS. However, these documents should contain the same information you are accustomed to receiving.

Columbia Analytical Services -- Kelso INTERNAL LOGIN SUMMARY REPORT (1101)

			05 - F	EB-04 08	:55				
Service Req. No. Client No. Client Name	k2400675:::::::::::::::::::::::::::::::::::		Project Name	Seatt	le Water	Trestment Pla	ent	Bottles: 2 - 500 m	Red
Bill 10:	Longview Fibre Company Attn: Accounts Payable P.O. Box 3000 Longview, WA 98632-0300		Report To:	5901	new Eibr Anderson E. Nargi le, WA	nal Way S.			
P.O. No. Logged In By ISR Num	1456 OB AJUELL		Site ID Project Chemist	r 58.94	il lace (f)				
COC Received Samples Submitter	Y d 03-FER-04							Storage: SAM 4	
CAS Samp No. Cl	ient Sample No.	Matrîx	Collected	DueDate	CU/ICP	~DIGEST			
K2400675-001 #1 K2400675-002 #2	Decenting Cocanting	WATER 1	6:45 28-JAN-04 1	8-FEB-04		isionkiji Milioniji		insining nakawatan an an an an an an an an an an an an a	
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•									



Longview Fibre Company

Value-Added Products . Sustainable Forestry

January 8, 2004

Mr. Arnaud Girard, Investigator King County – Wastewater Treatment Division Industrial Waste Program 130 Nickerson Street --- Suite 200 Seattle, WA 98109-1658

RE: Wastewater Discharge Authorization No. 631-02 - Longview Fibre Company

Dear Mr. Girard:

The effective date of this permit is 11/25/03, with the quarterly report as follows:

Longview Fibre Company discharged 49,560 gallons of water in November and 38,310 gallons in December. The discharge was not on a continuous basis but on an as-needed basis. We reuse all the treated water we can but, at times, cannot use all that is available. ALL discharged water was treated through our treatment system prior to being discharged. All water discharged goes through a meter that we read once per week rather than daily due to the small amount discharged and the random times it is discharged.

We had a high of 17,070 gallons in one week in November (extra cleanup was done) to a low of 4,470 gallons in December (short week w/holidays).

Sampling was done once and the results are enclosed. If there are any concerns or questions, please feel free to call me at any time.

Sincerely,

Tom Craig
Plant Manager

LFCo - Seattle

enclosure

Analytical Report

Client:

Longview Fibre Company

Project Name: Project No.:

Scattle Water Treatment Plant

Matrix:

 $N\Lambda$ Water Service Request: K2310108

Date Collected: 12/18/03 Date Received: 12/23/03 Date Extracted: 01/02/04

Total Metals Units: ug/L (ppb)

Analyte:

EPA Method:

Copper

Method Reporting Limit:

6010B 10

Date Analyzed:

01/06/04

Sample Name

Lab Code

#1 Decanting #2 Decanting Method Blank K2310108-001 K2310108-002 K2310108-MB 2260 2290

ND

Comments:



(a) Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200

Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001 Company Name: Longview Fibre Company This form is available at http://dnr.metrokc.gov/wlr/indwaste Please specify year: 20 **QUARTER** Sample Site No.: A4500 Permit/DA No.: 631-02 All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required. Sample Type C (Composite) G (Grab) BC (Batch) acturate, and complete. I am ton, including the possibility of data requiring a laboratory y accredited laboratory for each Sample Discharge Volume **Total Monthly** or persons who 8-0-4 Date Copper (Cu) on sample day Flow (gallons) (gallons) October Total volume discharged for October Novemebi Total volume discharged for November 49560 12/18 GMB 2.26 PFM 1855 GALS December 38310 Total volume discharged for December → Maximum daily flow from this quarter: gallons. Date on which maximum daily flow occurred:

Due Date: Fourth Quarter Report is due by Jan 15 of each year.

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Phone 206-263-3000 / FAX 206-263-3001 Company Name: Longview Fibre Company Please specify year: 2003 QUARTER Sample Site No.: A4500 Permit/DA No.: 631-02 All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required. Sample Type C (Composite) G (Grab) BC (Eatch) Sample Discharge Volume Month Total Monthly Date Copper (Cu) on sample day Flow (gallons) (gallons) October Signature of Principal Executive or Authorized Agent Total volume discharged for October Novemebr Total volume discharged for November GRAB 2,26 PPM 1855 GALS December

Total volume discharged for December → Maximum daily flow from this quarter: gallons. Date on which maximum daily flow occurred:

Due Date: Fourth Quarter Report is due by Jan 15 of each year.

Analytical Report

Client:

Longview Fibre Company

Project Name: Project No.:

NA

Seattle Water Treatment Plant

Service Request: K2310108 Date Collected: 12/18/03 Date Received: 12/23/03

Matrix:

Water

Date Extracted: .01/02/04

Total Metals Units: ug/L (ppb)

Analyte:

EPA Method:

Copper 6010B

Method Reporting Limit:

10

Date Analyzed:

01/06/04

Sample Name

Lab Code

#1 Decanting #2 Decanting Method Blank

K2310108-001 K2310108-002 K2310108-MB 2260 2290 ND

Comments:



January 8, 2004

Service Request No: K2310108

Jim Mantrell Longview Fibre Company End of Fibre Way P.O. Box 639 Longview, WA 98632

RE: Seattle Water Treatment Plant

Dear Jim:

Enclosed are the results of the sample(s) submitted to our laboratory on December 23, 2003. For your reference, these analyses have been assigned our service request number K2310108.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Vallace

Ed Wallace

Project Chemist

EW/jeb

Page 1 of 7



Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

.EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X Sec case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic lingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product cluting in approximately the correct carbon range, but the clution pattern does not match the calibration standard.
- Z The chromatographic tingerprint does not resemble a petroleum product.

- Cover Page INORGANIC ANALYSIS DATA PACKAGE

Project Name : Project No. :	Seattle Water Treatment Plant NA	Service Request: K2310108										
	Sample Name : #1 Decanting #2 Decanting	<u>Lab Code :</u> K2310108-001 K2310108-002										
	Method Blank	K2310108-MB										
Comments:		÷										
	Garant	1.1.	000004									

Approved By: _

Columbia Analytical		CHAIN OF CUSTODY											sr#: <u>Kl7\0108</u>														
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RCOC #1 06/03

Columbia Analytical Services Inc. Cooler Receipt And Preservation Form

CRFREV.DOC3/5/2003

CAS Kelso	1317	7 South 13th Avenue, P.O.	Box 479	Kelso, Washington 98626
An Employe	Columbia Analytical Services No company	c.		7 OH as including cover sheet: 3
To: JIM MA	NTEEL O		From:	WALLACE
LONVE	V FIBRE CO	2.		Columbia Analytical Services, Inc.
				1317 South 13th Avenue
	· · · · · · · · · · · · · · · · · · ·			P.O. Box 479
	· · · · · · · · · · · · · · · · · · ·	·		Kelso, WA 98625
Phone:			Phone:	(360) 577-7222 ext. 329
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REMARKS:	□ Urgent □	For your review	Reply ASAP	Please comment
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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:

Longview Fibre Company

Project Name: Project No.:

Matrix:

N۸ Water

Seattle Water Treatment Plant

Service Request: K2310108

Date Collected: 12/18/03 Date Received: 12/23/03 Date Extracted: 01/02/04

Total Metals Units: ug/L (ppb)

Analyte:

EPA Method:

Copper 6010B

Method Reporting Limit:

10

Date Analyzed:

01/06/04

Sample Name

Lab Code

#1 Decanting #2 Decanting Method Blank K2310108-001 K2310108-002 K2310108-MB 2260 2290

ND

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Company

Project Name:

Scattle Water Treatment Plant

Project No.:

NA

Service Request: K2310108

Sample Name:

#1 Decanting #2 Decanting

Method Blank

Lab Code:

K2310108-001 K2310108-002 K2310108-MB

Comments:

Approved By:

mA

Date:

Subject: [Fwd: Beckart system repair]

From: "Paul L. Brill" <plbrill@longfibre.com>

Date: Tue, 21 Nov 2006 09:47:26 -0800

To: "Woods, Robert E." <rewoods@longfibre.com>

CC: "Barnas, Zbigniew" <zbarnas@longfibre.com>, "Rantanen, Patricia A."

<parantanen@longfibre.com>, "Anderson, Michael J." <mjanderson@longfibre.com>, "Rogers,

Belton N."

solvens@longfibre.com>

Bob,

Attached is Beckart quote to bring system to full operation based on Greg O'Brien's visit here last month. Please follow-up with Greg on the recommendations. Do you want to do the installation?

Larry

Subject: Beckart system repair

From: Greg O'Brien < gregob@teleport.com> Date: Mon, 20 Nov 2006 19:55:33 -0800

To: "Rogers, Belton N." < bnrogers@longfibre.com>

CC: ZB <zbarnas@longfibre.com>, 'Pat Rantanen' <parantanen@longfibre.com>, "'Paul L. Brill'"

<plbrill@longfibre.com>, Mike Anderson <mjanderson@longfibre.com>, 'Fred Hughes'

<wastereduction@earthlink.net>, "'Michael J. Eaton" <mjeaton@longfibre.com>

Belton,

Attached is a quotation for the repair work I discussed with ZB and Pat during my last visit. Please let me know if you have any questions or would like to schedule the work. Thanks.

Sincerely,

Greg O'Brien
Beckart Environmental Inc.
NW Regional Manager
503.789.3013 cell
503.231-3572 fax
gobrien@beckart.com

Beckart system repair Content-Type: message/rfc822.

Longview Seattle repair G06-00589.00.pdf

Content-Type:

application/pdf

Content-Encoding: base64



Beckart Environmental, Inc.

6900 46th Street, Kenosha WI 53144

Phone: 262-656-7680

Fax: 262-656-7699

Quotation: G06-00589.00

To: Longview Fibre-Seattle

> P.O. Box 24867 (98124) 5901 E. Marginal Way

Seattle, WA 98124

Belton Rogers Attn:

Phone: (206) 762-7170 Fax:

(206) 767-2442

Issued:

Project:

Monday, November 20, 2006

Expiry Date:

Sunday, February 18, 2007

Sales Contact:

Grea O'Brien

Longview Seattle - repairs

Part Number ltem Qty

Description

Extn:

Price/Unit

Total

SCOPE OF WORK:

The following is a quotation to bring the Beckart wastewater treatment system back to it's full operational capability. Currently the system is run manually, which takes considerably more operator time and is much more widely varied as far as chemical dosages, cycle times, and optimal pH for consistent copper removal.

The recirculation and decant piping is completely plugged with solids, and the pH probe is no longer functional. The pH analyzer on the control panel is obsolete and should be replaced. The 3-way electrically actuated ball valves required for automation of the treatment and filter press cycles have been removed or rendered nonfunctional. The piping from the decant tank to the clean water storage tank is severely restricted, posing the most significant 'bottleneck" to the system as far as keeping up with the daily generation of wastewater.

Any unused electrically actuated ball valves or actuators previously purchased from Beckart may be returned for full purchase price credit to Beckart.

Please review this quotation, and call or e-mail me if you have any questions or concerns.

Sincerely,

Greg O'Brien Beckart Environmental Inc. **NW Regional Manager** 503.789.3013 cell 503.231.3572 fax

CAUED 11-22-06

SET THIS UP

Provided:

1. 1	2	541-003-200	Pneumatic 3way 2" Ball Valve w/actuator			
1. 2	2	541-700-000	Solenoid for Pneumatic Actuated BV			
1. 3	2	541-900-000	Manual Override for Pneumatic Actuated BV			
1. 4	1	760-006-051	Probe-PH, Flow thru, Epoxy Injection			
1. 5	1	761-000-000	Meter, PH/ORP, LCD Display			
1. 6	1	171-007-001	pH 7 Buffer Solution - 1 Quart			
pH 7 Buffer Solution - 1 Quart						



Beckart Environmental, Inc.

6900 46th Street, Kenosha WI 53144

Phone: 262-656-7680 262-656-7699 Fax:

Quotation: G06-00589.00

Item Qty	Part Number	Description	Price/Unit	Total

Provided:

1. 7 171-004-001 pH 4 Buffer Solution - 1 Quart

pH 4 Buffer Solution - 1 Quart

1.8 install-misc par Installation

> Lot labor and materials for interconnecting piping and wiring installation with the following scope of work: All interconnecting piping within the Beckart Environmental wastewater treatment system specific to the wastewater recirculation, decant, sludge to filter press, and filtrate to the Clean Water storage tank using schedule 80 P.V.C. pipe and fittings as necessary to eliminate blocked piping. Longview Fibre to provide full clearance and access to overhead piping, as well as use of scissor or boom lift to reach overhead pipe run from filtrate to Clean Water tank. Installation of 2- 2" 3-way pneumatic actuated ball valves for press/recirc and decant/bottom to press. All wiring and interconnects will be made according to the National Fire Protection Association National Electrical Code.

Note: Above labor is non-union. Union labor available at extra cost. Time required for installation approximately 2 days, by Beckart Specially trained installers. Does not include disposal of removed pipe/fittings.

Section Total:

\$7,800.00

Grand Total:

\$7,800.00

Terms & Conditions

Standard Terms and Conditions Apply. See attached F.O.B. Kenosha Plant Payment terms, net 30 days after completeion of work Prices exclude all applicable taxes. Delivery 2-4 weeks unless otherwise specified

Subject: Seattle Water Treatment Plant

Date: Mon, 16 Oct 2006 15:10:59 -0700

From: "Paul L. Brill" <plbrill@longfibre.com>

To: gregob@teleport.com

CC: 'Zbigniew Barnas' <zbarnas@longfibre.com>,

"'Anderson, Michael J.'" <mjanderson@longfibre.com>,

"'Rogers, Belton N."

hnrogers@longfibre.com>,

'Pat Rantanen' <parantanen@longfibre.com>,

"\"'Nelson, Gery J.'\" Wo" <gjnelson@longfibre.com>,

"Woods, Robert E." <rewoods@longfibre.com>

Greg,

ZB is out until Wednesday and I was out last week. Our third quarter waste water self monitoring report shows copper at 7.42ppm. I was talking with Mike Anderson and we need to respond to the city. What did you find last Friday? I'd like be able to say what may have happened and what we are doing about it. Larry

Write report

Greg O'Brien wrote:

ZB,

I am currently in California, but I can make it in on Friday of this week. Please forward to me the results of the test. I'd also like to see the copper levels of the raw water from the same day, if you have that information.

Your usage of the Poly V-100 has been lower in the past few months than it had been historically. I don't have the exact data at my fingertips, but I can research the ordering volume to show you.

When the operators manually add the Poly V-100, are they verifying the dosage by seeing how much the tote is being drawn down? Perhaps there is an intermittent pump problem. During my audit a few weeks ago I tested the pump, and it pumped the correct flow at 50 GPM. We had success at dosage of 2 minutes pumping time at 50 PSI pumping pressure. This should equate to approximately 3 gallons per batch, or slightly less that 1/2" used out of the tote.

I believe that running the treatments in AUTO will also help with having more batch consistency with less operator time. However, as we discussed before, the piping from the pump to the tank across the pH probe is completely plugged, and the 3-way actuated valve was not in place. The decant piping is also completely plugged up. In addition, the piping from the filtrate tank to the CW Tank is also mostly plugged (which by the way adds a lot of time to the press cycle, because

when the filtrate tank fills up it turns off the pump that fills the filter press until the filtrate tank is emptied, and during my last visit that would appear to take at least a couple of hours).

For assurance, start adding 3 minutes Poly V-100 per batch, after the PolyMac 2-4619 and caustic soda are applied and a good "pin floc" formation is seen in the jar test. pH should be at 8.5 or as close to it as possible for best copper removal.

Please advise me as far as what levels were seen in the latest test, and I'll plan to be there Friday. What are your hours on Friday?

Greg O'Brien

Beckart Environmental Inc.

NW Regional Manager

503.789.3013 cell

503.231-3572 fax

gobrien@beckart.com

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> ----Original Message----
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> From: Zbigniew Barnas [mailto:zbarnas@longfibre.com]

> Sent: Tuesday, October 10, 2006 8:31 PM

> To: gregob@teleport.com

> Cc: Anderson, Michael J.; Brill, Paul L.; Rogers, Belton N.; Pat Rantanen;

> Nelson, Gery J.

> Subject: treatment plant

- > Hi Greg.
- > Is there a chance to get you over to our plant this week. Out test
- > results for last quarter came back with very high copper level, I mean
- > sky high. I would like you to audit our system and process just to
- > figure out what is going on. I pulled off the line partial tote of Poly
- > V-100 because its color is different than the two we have on hand. I am
- > not suspecting it is a bad stuff but just to be sure I decided to use
- > new tote. Let me know when can you came over and we will talk more.
- > Regards.
- > zb

Subject: Beckart raw water copper results are in

Date: Wed, 01 Nov 2006 15:19:52 -0800 From: Greg O'Brien <gregob@teleport.com>

To: Mike Anderson <mjanderson@longfibre.com>

Mike.

The raw water we sampled had copper level of 140 mg/l, which is up quite a bit from the 52.6 mg/L about a year ago. This isn't unusual though, and is of course dependent on the print runs prior to my sample collection. Our treatment program is showing reduction of copper level to 0.03 mg/L on a bench scale jar test.

سرار

Did you send out for a second test just for confirmation? If so, please share the results with me.

Now that I know the treatment program is fine, based on our latest lab results, I'll finish up the quote that I said I would provide for Beckart to replace/repair the necessary components to get the system back up and running in "auto". I'll have this done and e-mailed to you by Friday.

Greg O'Brien

Beckart Environmental Inc.

NW Regional Manager

503.789.3013 cell

503.231-3572 fax

gobrien@beckart.com

- Lab mistake

- Lab mistake

- Continue of the diameter of the continue of the conti

Subject: RE: Seattle Water Treatment Plant

Date: Mon, 16 Oct 2006 15:43:24 -0700

From: Greg O'Brien < gregob@teleport.com>

To: "'Paul L. Brill'" <plbrill@longfibre.com>

CC: 'Zbigniew Barnas' <zbarnas@longfibre.com>,

"'Anderson, Michael J.'" <mjanderson@longfibre.com>,

"'Rogers, Belton N.'"

'Pat Rantanen' <parantanen@longfibre.com>,

""\"Nelson, Gery J.'\" Wo'" <ginelson@longfibre.com>,

"Woods, Robert E." <rewoods@longfibre.com>

Paul,

On Friday I met with ZB, Pat and Isaac to discuss what could have been the cause of the high copper levels. Assuming that the treatment was typical (proper chemical dosages were used), and a clear or clear/tinted filter press effluent was tested, it seems that the problem may have come from the Poly V-100 metal scavenging chemical. The Poly V-100 is added to remove the chelated copper present in your wastewater. Our prior testing lowered the copper levels from 52.6 mg/L (PPM) to 0.05 mg/L (PPM), so we know we have an effective chemical program. The Poly V-100 is dispensed from a 275-gallon tote, and it appears that the tote may be contaminated or diluted. A possible means is that water from the treatment tank siphoned back through the piping and into the tote of product. There is a check valve in place to prevent this, but it is possible that the check valve had been leaking.

I collected a sample of the Poly V-100 tote that may have been the problem (ZB had since taken this tote off-line and started using a new tote). I also collected a sample of the raw wastewater, with no chemicals added to it. These samples were overnighted to our lab in Kenosha to test the following:

Copper level in raw wastewater (to verify no drastic change from prior samples)

Copper levels after treatment with suspect Poly V-100

Copper levels after treatment with known "good" Poly V-100

Specific gravity of "suspect" Poly V-100 to determine any contamination.

I will follow up with our lab Tuesday a.m. to confirm receipt of the samples and that the testing has begun. I will notify you Tuesday as to when we have complete results.

Another possible, though unlikely, cause is highly elevated copper levels in the raw wastewater. We will determine if this is true with the above testing procedures.

I will be in touch tomorrow after I speak with our lab.

On another note: ZB asked me to put together a proposal to come in and replace the necessary valves, clear obstructed piping, etc. to get the system back to a more automated means of operation to reduce operator

involvement time and improve consistency from batch to batch. Accurate pH control is critical to effective metals removal, and having this done automatically at the control panel is preferred over constant use of a handheld pH meter. The handheld device is a good back up, but unless it is consistently cleaned and calibrated, it is not as accurate as the probe/analyzer we supply with the system. I'll have this proposal completed and submitted to you within a day or two.

Sincerely,

Greg O'Brien

Beckart Environmental Inc.

NW Regional Manager

503.789.3013 cell

503.231-3572 fax

gobrien@beckart.com

From: Paul L. Brill [mailto:plbrill@longfibre.com]
Sent: Monday, October 16, 2006 3:11 PM

To: gregob@teleport.com

Cc: 'Zbigniew Barnas'; 'Anderson, Michael J.'; 'Rogers, Belton N.'; 'Pat Rantanen'; "'Nelson, Gery J.'" Wo; Woods,

Robert E.

Subject: Seattle Water Treatment Plant

Greg.

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Greg O'Brien wrote:

ZB,

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Greg O'Brien

Beckart Environmental Inc.

NW Regional Manager

503.789.3013 cell

503.231-3572 fax

gobrien@beckart.com

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> Subject: treatment plant

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- > not suspecting it is a bad stuff but just to be sure I decided to use
- > new tote. Let me know when can you came over and we will talk more.
- > Regards.
- > zb

Subject: Re: Seattle Environmental - Beckart System

Date: Mon, 20 Nov 2006 16:15:29 -0800 From: "Paul L. Brill" plbrill@longfibre.com>

```
To: Mike Anderson <mjanderson@longfibre.com>
Mike,
Let's talk Tuesday morning.
Larry
Mike Anderson wrote:
>Per our permit we must report all testing results. I have taken samples >which I had planed to send to Columbia Analytical. As a follow up, and as
>a requirement for this quarter. I have not sent these samples anywhere
>yet, so lets discuss, thanks Mike A.
>"Paul L. Brill" wrote:
>> To All,
>>We received a copper violation in Oakland last week on copper level in
>>excess of permit limits. That reminded me of our most recent Seattle
>>violation. I talked with Bob on Saturday concerning the system repairs
>>- the valve has been replaced and some work done on the piping.
>>I'd like to recheck our treated water discharge to make sure all is
>>well. Please coordinate with Beckart.
>>Thanks,
>>Larry
>>
```

Subject: Beckart test results report

Date: Wed, 08 Nov 2006 06:50:11 -0800 From: Greg O'Brien < gregob@teleport.com>

To: Mike Anderson <mjanderson@longfibre.com>

Mike,

Here is the report we discussed yesterday. Please give me a call if you have any questions or concerns.

I was thinking about this, and if the operators fill out a daily log sheet (as I've suggested for years), then when an occurrence like Isaac described happened (raw water transferred on top of treated water during a treat cycle), it should be noted on the log sheet, then you would have an operator log sheet to go back to with the specific date to compare with the lab results you get from the water sampled on any specific date. It may have helped explain this recent high result.

Sincerely,

Greg O'Brien

Beckart Environmental Inc.

NW Regional Manager

503.789.3013 cell

503.231-3572 fax

gobrien@beckart.com

LongSeattle Cu final 1006.pdf

Name: LongSeattle Cu final 1006.pdf

Type: Acrobat (application/pdf)

Encoding: base64

Subject: Beckart sample copper results

Date: Thu, 19 Oct 2006 15:32:54 -0700

From: Greg O'Brien < gregob@teleport.com>

To: Mike Anderson <mjanderson@longfibre.com>
CC: 'Zbigniew Barnas' <zbarnas@longfibre.com>,
"'Rogers, Belton N.'"

'bnrogers@longfibre.com>,

'Pat Rantanen' <parantanen@longfibre.com>

Mike.

Attached is the initial lab report on the sample I collected. The Poly V-100 is not comtaminated, as the specific gravity, pH and performance are within the product specs. In side by side testing, copper results were very low. We are awaiting the results of the raw water copper, which we don't do in-house, but has been sent out.

It is possible that the raw water on the day that you tested had a very high level of copper. Another possibility is that there was a lab error and the 7.42 PPM was not correct. The testing we performed shows that a dosage of 2.7 gallons (about 1 minute of Poly V-100 pumping) gave excellent results when added at a pH of 8.0 and mixed for at least 20 minutes.

I'll be in touch with raw water copper numbers, but in the meantime I think you should pull another sample of treated water and send out for a copper test for comparison purposes.

Sincerely,

Greg O'Brien Beckart Environmental Inc. NW Regional Manager 503-789-3013 503-231-3572 fax

LongSeacopper.doc

Name: LongSeacopper.doc

Type: Microsoft Word Document (application/msword)

Encoding: base64

Subject: Re: [Fwd: Copper in water:]

Date: Tue, 30 Sep 2003 14:11:47 -0700

From: "Frase, Stephen E" <sefrase@longfibre.com> Internal To: "Mendenhall David N" <dnmendenhall@longfibre.com>,

"Mantell James R." < jrmantell@longfibre.com>

CC: "Whitford Alan D. (Al)" <adwhitford@longfibre.com>

Copper and zinc are not regulated by federal hazardous waste rules. Copper and zinc are both toxic to fish and may cause the waste to designate as WDOE Extremely Hazardous Waste (EHW), Dangerous Waste (DW), Special Waste, or as solid waste. I know of no Washington standards for copper and zinc metals in landfills. The outcome of the WDOE fish bio-assay on the waste cake by Method 80-12 would determine the regulatory status of the solid removed from a treatment unit. Having checked Sax's Dangerous Properties of Industiral Materials book for oral rat LD50's for several different copper compounds, I found the WDOE toxicity categories to be either "C" or "D" for the compounds. Category "C" and "D" toxic compounds would be DW with a waste code of WT02 Categories X, A, and B toxic would designate as EHW with a WT01 waste code. Book designation of WDOE toxic waste requires the generator to known the respective toxicities and concentrations of the toxic constituents to calculate the equivalent concentration. Since the specific compounds of zinc and copper are unknown, as are their respective concentrations, the book designation method is not viable. The toxicity data suggests that at worst the waste would designate as DW. A solid DW waste which is only WDOE toxic may be managed as a Special waste. Special wastes may go to municipal landfills which meet the conditions at WAC 173-351-300 (2)(b), namely the landfill must have an engineered liner. Special wastes are not counted as DW, but must be reported on annual DW reports. The fish bio-assay results take presedence over book designation. If less than 50% of the fish die at the 100 mg/liter concentration, the waste is only a solid waste-not DW, and could go to a landfill without further consideration. If more than 50% of the fish die at this concentration, the test must be re-run at the 10 mg/liter concentration, the EHW level. If less than 50% die at the 10mg/liter level, the waste is DW and may , for solids, be redesignated as Special Waste. If 50% or more die at 10 mg/liter, the waste is EHW. DW, Special waste, and EHW all require special management. Adding something to remove copper from the wastewater could clean the water, produce a solid cake which would pass the 100 mg/liter fish bio-assay, and be taken to a municipal (sub-title D) landfill as solid waste. EHW would need treatment prior to disposal. Hope this helps. Steve.

"Mendenhall, David N" wrote:

```
> Steve- Do you know what the state standards are for metals in
> landfills? Do they have a standard?
> Dave
> Dave
> Subject: Copper in water:
> Date: Thu, 25 Sep 2003 16:29:52 -0700
> From: "Mantell, James R." < jrmantell@longfibre.com>
> To: "Mendenhall David N" < dnmendenhall@longfibre.com>
> Dave:
> Dave:
> Tom requested that I contact you with our problem of too much copper in our discharge water. He would like to know if we change how we treat our > water and remove the copper and put it in the press cake will we end up > with a hazardous waste that we can not put in the land fill. He does not > want to contact Waste Management and ask them. He would like the find a > middle ground where we are in compliance with our discharge permit and
```

- > not put too much copper in the press cake to get us in trouble with > Waste management. He would like to have some information before we
- > change how we treat the water.
 > I need Your help on this matter.
- > Jim Mantell